

## SELECTIVES AND ADVANCED SELECTIVES

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 fulfil these pre-requisites.

### Selectives:

#### Biochemistry/ Molecular Biology

BIOC 2610 - Introductory Biochemistry Lab  
BIOC 3300 - Intermediary Metabolism  
BIOC 3400 - Nucleic Acid Biochemistry & Molecular Biology  
BIOC 3610 – Laboratory Techniques 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 3078 – Animal Physiology I  
BIOL 3322 – Parasitology  
BIOL 3328 – Medical Entomology (only offered in Summer)  
BIOL 3336 – Vertebrate Functional Morphology  
BIOL 3421/ANAT 3421 - Comparative Vertebrate Histology  
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

#### 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 2202 – The Beginnings of Western Medicine: The Birth of the Body  
INTD 3115 - Global Health in the 21<sup>st</sup> Century  
PHIL 2805 - Ethics and Health Care: Patient Care  
PHIL 3800 – Philosophy of Medicine  
SOSA 2502 - Biomedicine and the Illness Experience  
SOSA 3135 – The Social Organization of Health Care  
SOSA 3143 - Health, Illness, and the World System  
SOSA 3145/GWST 3145 - Gender and Health  
SOSA 3147 - Social Gerontology  
SOSA 3148 - The Sociology of Addiction/ Drugs, Health, and Society  
SOSA 3403 – Qualitative and Field Methods

### Interprofessional Health Education

IPHE 2201 – Introduction to Aboriginal Peoples' Health & Healing

### 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

### Microbiology/Immunology

MICI 2400 – Laboratory Methods in Microbiology & Immunology

MICI 3114 - Virology

MICI 3119 - Physiology of Prokaryotic Cell

MICI 4115 – Immunology of Host Resistance

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

NESC 3170/PSYO 3170 – Hormones and Behaviour

NESC 3227/PSYO 3227 – Principles of Human Neuropsychology

NESC 3670 - Genes, Brain and Behaviour

### Pharmacology

PHAC 4001 - Pharmacology II

### Physics

PHYC 1300Y – Physics In and Around You (second term of full year course)

PHYC 1320 – Physics in and Around You

### Physiology & Biophysics

PHYL 3120 - Exercise Physiology in Health & Disease

PHYL 3320 - Human Cell Physiology

PHYL 3420 - Sensory Physiology

PHYL 3520 - Core Concepts in Medical Physiology

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 - Abnormal Behaviour

PSYO 2770 - Brain & Behaviour (alternate years)

PSYO 3043/NESC 3043 – Neurobiology of Learning

PSYO 3129 - Childhood Psychopathology (Instructor Permission)

PSYO 3170/NESC 3170 – Hormones and Behaviour

PSYO 3227/NESC 3227 – Principles of Human Neuropsychology

Science

SCIE 3100 – Experiential Learning in Medical Sciences

**Advanced Selectives:**

Biochemistry/Molecular Biology

BIOC 4010 – Bioinformatics (alternate years)

BIOC 4302 – Biochemistry of Lipids

BIOC 4305 – Mechanisms of Signal Transduction

BIOC 4403 – Genes and Genomes

BIOC 4501 – Medical Biotechnology I (alternate years until 2017/18, then possibly every year)

BIOC 4700 – Proteins

BIOC 4701 – Enzymes

BIOC 4835/BIOL 4035 – Human Genetics

Biology

BIOL 3079 – Animal Physiology II

BIOL 4020 – Advanced Cell Biology

BIOL 4035/BIOC 4835 – Human Genetics

Humanities and Social Sciences

SOSA 4006 – Issues in Critical Health Studies

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 (alternate years)

MICI 4033 - Advanced Microbial Genetics

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 (alternate years)

Neuroscience

NESC 3180/PSYO 3180 - Psychoneuroimmunology/Ecological Immunology (alternate years)

NESC 3970/PSYO 3970 – Molecular Neuroscience

NESC 4185/ PHYL 4000 - Current Advances in Synaptic Function and Plasticity

Pathology

PATH 4100 – Critical Thinking in Neuropathology

Physiology & Biophysics

PHYL 4000/NESC 4185 - Current Advances in Synaptic Function and Plasticity

PHYL 4324 - Endocrine Physiology

PHYL 4504 – Respiratory Physiology

PHYL 4680 - Cardiovascular Physiology (offered in alternate years)

Psychology

PSYO 3180/NESC 3180 - Psychoneuroimmunology/Ecological Immunology (alternate years)

PSYO 3224 – Forensic Psychology

PSYO 3970/NESC 3970 – Molecular Neuroscience

Science

SCIE 4100X/Y – Directed Project in Medical Sciences