# **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 - not offered in 2021/22

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

### **Economics**

ECON 2231 - Perspective in Health Economics

ECON 3231 - Topics in Health Economics - not offered in 2021/22

#### **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) – not offered in 2021/22

ENGL 3320 – Literature and the History of Medicine (offered in alternate years to the ENGL 2030)

HSTC 2102 – Origins of Modern Medicine

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 2202 - The Beginnings of Western Medicine: The Birth of the Body

HSTC 2206 - Biopolitics: Human Nature in Contemporary Thought

HSTC 2350 – The Body in Early Modern Europe – not offered in 2021/22

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 2021/22

SOSA 2502 - Biomedicine and the Illness Experience - not offered in 2021/22

SOSA 3135 – The Social Organization of Health Care – not offered in 2021/22

SOSA 3143 - Health, Illness, and the World System

SOSA 3145/GWST 3800 - Gender and Health

SOSA 3147 – Aging Cross Culturally – not offered in 2021/22

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

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

# Microbiology/Immunology

MICI 2400 - Laboratory Methods in Microbiology & Immunology

MICI 3114 - Virology

MICI 3119 - Physiology of Prokaryotic Cell

MICI 4115 - Medical Immunology

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 2021/22

NESC 3170/PSYO 3170 – Hormones and Behaviour

NESC 3227/PSYO 3227 – Principles of Human Neuropsychology

NESC 3670 - Genes, Brain and Behaviour

## **Physics**

PHYC 1290 - Introduction to Physics

PHYC 1320 - Physics in and Around You

PHYC 2250 – Physics of Biological and Medical Technology – not offered in 2021/22

PHYC 2610 – Introduction to Biomechanics – not offered in 2021/22

### Physiology & Biophysics

PHYL 3120 - Exercise Physiology in Health & Disease

PHYL 3320 - Human Cell Physiology

PHYL 3420 - Sensory Physiology - not offered in 2021/22

PHYL 3520 - Core Concepts in Medical Physiology (can't take this AND PHYL 4504)

PHYL 3600 - Directed Project in Physiology

PHYL 3620 - Human Physiology Lab - not offered in 2021/22

#### Psychology

PSYO 2080 - Social Psychology

PSYO 2090 - Developmental Psychology

PSYO 2130/NESC 2130 – Introduction to Cognitive Psychology

PSYO 2220 - Abnormal Behaviour

PSYO 2444 - Forensic Psychology

PSYO 2770 - Brain & Behaviour (alternate years) - not offered in 2021/22

PSYO 3043/NESC 3043 – Neurobiology of Learning – not offered in 2021/22

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 4404 – Gene Expression

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

BIOC 4700 - Proteins - not offered in 2021/22

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

## Computer Science

CSCI 4180 – Introduction to Computational Biology and Bioinformatics – not offered in 2021/22

CSCI 4181 - Algorithms in Bioinformatics

## **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 - not offered in 2021/22

# Medical Neuroscience

ANAT 4010 - Advanced Human Anatomy

# Microbiology/Immunology

MICI 4027 - Molecular Mechanisms of Cancer (alternate years) - not offered in 2021/22

MICI 4033 - Advanced Microbial Genetics - not offered in 2021/22

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) – not offered in 2021/22

#### Neuroscience

NESC 3180/PSYO 3180 - Psychoneuroimmunology/Ecological Immunology (alternate years) – **not offered in 2021/22** NESC 3970/PSYO 3970 – Molecular Neuroscience

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

# **Pathology**

PATH 4100 - Critical Thinking in Neuropathology

### Pharmacology

PHAC 4001 - Pharmacology II

# Physiology & Biophysics

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

PHYL 4324 - Endocrine Physiology

PHYL 4504 - Respiratory Physiology (can't take this AND PHYL 3520)

PHYL 4680 - Cardiovascular Physiology

## **Psychology**

PSYO 3180/NESC 3180 - Psychoneuroimmunology/Ecological Immunology (alternate years) – **not offered in 2021/22** PSYO 3970/NESC 3970 – Molecular Neuroscience

## Science

SCIE 4101 & 4102 - Directed Project in Medical Sciences I & II