

## 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 offered at Dalhousie University (Selective is a term already in place by Dalhousie Medical School). In cases where pre-requisites for Selectives are not offered as Medical Science core courses, Elective space can be used to fulfill these pre-requisites.

### Selectives:

#### Biochemistry/ Molecular Biology

BIOC 2610 - Introductory Biochemistry Lab  
BIOC 3300 - Intermediary Metabolism  
BIOC 3400 - Nucleic Acid Biochemistry & Molecular Biology  
BIOC 3700 - Biomolecular Chemistry

#### Biology

BIOL 2040 - Evolution  
BIOL 2060 - Introductory Ecology  
BIOL 3020 - Advanced Cell Biology  
BIOL 3036 - Transgenic Organisms  
BIOL 3046 - Molecular Evolution  
BIOL 3050 - Developmental Biology  
BIOL 3322 - Parasitology  
BIOL 3328 - Medical Entomology  
BIOL 3430/ANAT 2160 - Introduction to Human Histology  
BIOL 3421/ANAT 3421- Comparative Vertebrate Histology

#### Chemistry

CHEM 2301 - Introduction to Physical Chemistry I  
CHEM 2304 - Introduction to Physical Chemistry II

#### Community Health & Epidemiology

CH&E XXXX - Topics in Environmental Health

#### Humanities and Social Sciences

INTD 3115 - Global Health in the 21<sup>st</sup> Century  
PHIL 2805 - Ethics and Health Care: Patient Care  
PHIL 2810 - Ethics and Health Care: Social Policy  
SOSA 2400 - Health & Illness Across Cultures  
SOSA 2502 - Biomedicine and the Illness Experience  
SOSA 3135 - The Social Organization of Health Care  
SOSA 3141 - Sociology of Mental Disorders  
SOSA 3143 - Health, Illness, and the World System  
SOSA 3145 - Gender and Health (cross-listed with GWST 3145.03)  
SOSA 3147 - Social Gerontology  
SOSA 3148 - The Sociology of Addiction/ Drugs, Health, and Society

#### Medical Neuroscience

ANAT 2160/BIOL 3430 - Introduction to Human Histology  
ANAT 3421/BIOL 3421 - Comparative Vertebrate Histology

#### Microbiology/Immunology

MICI 3114 - Virology

MICI 3119- Physiology of Prokaryotic Cell  
MICI 4115 – Immunology of Host Resistance  
MICI 4218 – Clinical Microbiology

### Neuroscience

NESC 2007 - Neuroscience Principles & Methods  
NESC 2470 - Systems Neuroscience  
NESC 3270 - Developmental Neuroscience  
NESC 3670 - Genes, Brain and Behaviour

### Pharmacology

PHAC XXXX (BIOL 4407) - Introduction to Pharmacology II  
PHAC XXXX – Cardiovascular Physiology & Pharmacology  
PHAC XXXX – Pain Research and Therapy  
PHAC XXXX – Drug Discovery & Development  
PHAC XXXX – Drugs, Society, and the Environment  
PHAC XXXX – Complementary and Alternative Medicine  
PHAC XXXX – Pharmacology of Systemic Cancer Therapy

### Physics

PHYC 2250 - Physics of Biological and Medical Technology

### 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

### Psychology

PSYO 2000 - Research Methods in Experimental Psychology  
PSYO 2080 - Social Psychology  
PSYO 2090 - Developmental Psychology  
PSYO 2170 - Hormones and Behaviour  
PSYO 2220 - Abnormal Behaviour  
PSYO 2501 - Statistical Methods I  
PSYO 2770 - Brain & Behaviour  
PSYO 3082 - Experimental Social Psychology  
PSYO 3122 - Methods in Experimental Clinical Psychology  
PSYO 3129 - Childhood Psychopathology  
PSYO 3180 - Psychoneuroimmunology/Ecological Immunology  
PSYO 3225 - Health Psychology  
PSYO 3237 - Drugs and Behaviour

### **Advanced Selectives:**

#### Biochemistry/Molecular Biology

BIOC 4010 – Bioinformatics  
BIOC 4302 – Biochemistry of Lipids  
BIOC 4305 – Mechanisms of Signal Transduction  
BIOC 4306 - Nutritional Biochemistry  
BIOC 4403 – Genes and Genomes  
BIOC 4404 – Gene Expression

BIOC 4501 – Medical Biotechnology I  
BIOC 4700 – Proteins  
BIOC 4701 – Enzymes  
BIOC 4702 – Biophysical Characterization of Macromolecules  
BIOC 4811– Biochemistry of Clinical Disorders I  
BIOC 4812 – Biochemistry of Clinical Disorders II  
BIOC 4835/BIOL 4035 – Human Genetics

### Biology

BIOL 4035/BIOC 4835 – Human Genetics  
BIOL 4050 - Advanced Topics in Developmental Biology

### Humanities and Social Sciences

PHIL 4801 - Topics in Ethics and Health Care  
POLI 4260 - The Politics of Health Care

### Microbiology/ Immunology

MICI 4027 - Molecular Mechanisms of Cancer  
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 4118 – Molecular Bacterial Pathogenesis  
MICI 4302 – Molecular Immunology

### Neuroscience

NESC 4000 - Senior Seminar

### Physiology & Biophysics

PHYL 4000 - Current Advances in Synaptic Function and Plasticity  
PHYL 4324 - Endocrine Physiology  
PHYL 4680 - Cardiovascular Physiology

### Psychology

PSYO 4000 - Senior Seminar