**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 21st 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