



The following proposals, received on DAP between the dates listed below have been approved.

DAP Submission Period: June 16 - 30, 2020

DAP Approval Date: July 16, 2020

[For more information on the DAP process, see the Secretariat's website.](#)

Approval Route: DAP

Faculty of Arts and Humanities

Museum and Curatorial Studies

Effective, September 1, 2020, the following change(s) be made: Course Introduction.

Museum and Curatorial Studies 3692F/G - SPECIAL TOPICS IN MUSEUM & CURATORIAL STUDIES

Short title: SPECIAL TOPICS

Please consult Department for current offerings.

Prerequisite(s): Registration in a Department of Visual Arts Module, or permission of the Department.

Extra Information: 3 hours.

0.5 course

Faculty of Health Sciences

Kinesiology

Effective, September 1, 2020, the following change(s) be made: Course Suffix Revision.

Kinesiology 2992A/B/Y FITNESS ASSESSMENT AND STRENGTH TRAINING

Effective, September 1, 2020, the following change(s) be made: Course Suffix Revision.

Kinesiology 2993A/B/Y - LIFESTYLE, INDIVIDUAL, FITNESS & EXERCISE

Effective, September 1, 2020, the following change(s) be made: Course Suffix Revision.

Kinesiology 2994A/B/Y SPECIFIC POPULATIONS HEALTHY ENGAGEMENT REHABILITATION & EXERCISE

Faculty of Science

Biology

Effective, September 1, 2020, the following change(s) be made: Course Introduction.

Biology 4971G/Z INDEPENDENT STUDY

A project course in a particular field under the direction of a faculty member. Students must have arranged a project with a supervisor before completing registration.

Antirequisite(s): Biology 4999E.

Prerequisite(s): Biology 4970F/G and Registration in year 4 of an Honours Specialization module offered by the Department of Biology.

Extra Information: 8 laboratory/tutorial hours.

A current listing of projects is available from the Biology Department Office. See research notice boards for areas of specialization of the faculty and fields available.

0.5 course

Physics

Effective, March 1, 2021, the following change(s) be made: Course Introduction.

Physics 1101A/B INTRODUCTION TO PHYSICS I

An introductory algebra-based course in physics covering the foundation principles of kinematics, forces, conservation of energy and momentum, torque, equilibrium, geometric optics and optical instruments. Fundamental physics concepts are introduced with examples from biological applications.

Antirequisite(s): Physics 1201A/B, Physics 1401A/B, Physics 1501A/B, the former Physics 1028A/B, Physics 1301A/B.

Prerequisite(s): One of the following: Grade 12U Advanced Functions (MHF4U), Mathematics 0110A/B.

Extra Information: 3 lecture hours, 3 laboratory hours.

Effective, March 1, 2021, the following change(s) be made: Course Introduction.

Physics 1102A/B INTRODUCTION TO PHYSICS II

An introductory algebra-based course in physics covering the foundation principles of oscillations and waves, fluids, electricity, and magnetism. Fundamental physics concepts are introduced with examples from biological applications.

Antirequisite(s): Physics 1202A/B, Physics 1402A/B, Physics 1502A/B, the former Physics 1029A/B, Physics 1302A/B.

Prerequisite(s): One of Physics 1101A/B, Physics 1401A/B Physics 1501A/B, the former Physics 1028A/B, or Physics 1301A/B.

Extra Information: 3 lecture hours, 3 laboratory hours.

Note: This course is not suitable for entry into programs in Physics and Astronomy or for admission to the Bachelor of Medical Sciences program.

Effective, March 1, 2021, the following change(s) be made: Course Introduction.

Physics 1201A/B PHYSICS FOR THE SCIENCES I

An introductory laboratory-based course in physics covering the foundational principles of kinematics, force and motion, energy, linear momentum, rotational motion, torque, equilibrium, angular momentum, geometric optics and optical instruments. Fundamental physics concepts are introduced with examples in physical, biological, and medical processes to develop students' problem-solving skills.

Antirequisite(s): Physics 1101A/B, Physics 1401A/B, Physics 1501A/B, the former Physics 1028A/B, Physics 1301A/B.

Prerequisite(s): Grade 12U Calculus and Vectors (MCV4U) or Mathematics 0110A/B.

Corequisite(s): Calculus 1000A/B or Calculus 1500A/B.

Extra Information: 3 lecture hours, 3 laboratory/tutorial hours.

Note: This course, together with Physics 1202A/B, is a suitable prerequisite for modules having an introductory physics requirement (including modules in the Faculty of Science, modules offered by the basic Medical Science departments, and professional schools requiring a calculus-based laboratory course in physics).

Effective, March 1, 2021, the following change(s) be made: Course Introduction.

Physics 1202A/B PHYSICS FOR THE SCIENCES II

An introductory laboratory-based course in physics covering the foundational principles of oscillations, waves, fluids, electric fields and potential, DC circuits, magnetic fields, and magnetic induction. Fundamental physics concepts are introduced with examples in physical, biological, and medical processes to develop students' problem-solving skills.

Antirequisite(s): Physics 1102A/B, Physics 1402A/B, Physics 1502A/B, the former Physics 1029A/B, Physics 1302A/B.

Prerequisite(s): One of Physics 1201A/B, Physics 1401A/B or Physics 1501A/B, or a minimum mark of 80% in Physics 1101A/B, or the former Physics 1028A/B or Physics 1301A/B; Calculus 1000A/B or Calculus 1500A/B.

Extra Information: 3 lecture hours, 3 laboratory/tutorial hours.

Note: This course, together with Physics 1201A/B, is a suitable prerequisite for modules

having an introductory physics requirement (including modules in the Faculty of Science, modules offered by the basic Medical Science departments, and professional schools requiring a calculus-based laboratory course in physics).

Faculty of Science/Schulich School of Medicine & Dentistry; including BMSc and Neuroscience

Biochemistry

Effective, September 1, 2020, the following change(s) be made: Course Antirequisite Revision, Course Pre or Corequisite Revision, Course Title or Description Revision.

Biochemistry 4450A – MOLECULAR GENETICS OF HUMAN CANCER

Key cellular pathways that are frequently subverted in tumour cells leading to neoplasia will be discussed, as well as mechanisms by which environmental factors affect tumour development. Mutation of specific human genes subverts normal cellular physiology creating characteristic alterations called 'hallmarks' that fuel the development of cancer. The underlying processes that alter cellular pathways and gene function will be discussed. Cancer models and molecular therapies will also be considered related to the cancer hallmarks.

Antirequisite(s): Pathology 4450A.

Prerequisite(s): Biology 2581A/B; and either Biochemistry 3381A or Pathology 3500.

Extra Information: 2 lecture hours.

Cross-listed with Pathology 4450A.

Pathology

Effective, September 1, 2020, the following change(s) be made: Course Introduction.

Pathology 4450A – MOLECULAR GENETICS OF HUMAN CANCER

Short title: MOLECULAR GENETICS HUMAN CANCER

Mutation of specific human genes subverts normal cellular physiology creating characteristic alterations called 'hallmarks' that fuel the development of cancer. The underlying processes that alter cellular pathways and gene function will be discussed. Cancer models and molecular therapies will be related to the cancer hallmarks.

Antirequisite(s): Biochemistry 4450A.

Prerequisite(s): Biology 2581A/B; and either Pathology 3500 or Biochemistry 3381A.

Extra Information: 2 lecture hours.

Cross-listed with Biochemistry 4450A.

Course Weight: 0.5

Physiology

Effective, September 1, 2020, the following change(s) be made: Course Title or Description Revision.

Physiology 4600A/B – DISEASES OF ION CHANNELS

Diseases related to ion channels, such as including epilepsy, congenital sensorineural hearing loss, immunodeficiency, Charcot-Marie-Tooth disease and cardiac arrhythmias. The physiology and pathophysiology of relevant ion channels will be covered.

Faculty of Social Science

Economics

Effective, September 1, 2020, the following change(s) be made: Course Antirequisite Revision, Course Title or

Description Revision.

Economics 2156A/B LABOUR ECONOMICS OF TRADE UNIONS AND LABOUR - BARGAINING

The economic and legal aspects of labour relations will be approached under some or all of the following headings: the history and origin of the trade union movement, the economics of trade unions, labour law, wage/price controls and the relationship of unions, firms and governments.

Antirequisite(s): Economics 3344A/B and Economics 3345A/B.

Prerequisite(s): Economics 1021A/B and Economics 1022A/B, or Economics 2001A/B. (Main, King's)

Effective, September 1, 2020, the following change(s) be made: Course Antirequisite Revision, Course Title or Description Revision.

Economics 3344A/B LABOUR ECONOMICS I

A study of the labour market, including wage and employment determination, labour force participation, investment in labour market skills and unions.

Antirequisite(s): Economics 2155A/B, Economics 2156A/B.

Prerequisite(s): Economics 2261A/B. (Main, King's)

Effective, September 1, 2020, the following change(s) be made: Course Title or Description Revision.

Economics 2155A/B LABOUR ECONOMICS-THEORY

The theory of Labour economics encompasses the questions of the supply of and demand for labour in the aggregate and of various skills in particular. Alternative approaches to these questions intermediate problems will be discussed as well as their effects on final outcome, the distribution of earnings and the level of unemployment.

(Main, King's)

Geography

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2210A/B INTRODUCTION TO STATISTICS FOR GEOGRAPHERS

Antirequisite(s): Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2810, Psychology 2820E, Psychology 2830A/B, Psychology 2850A/B, Psychology 2851A/B, Social Work 2207A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, Statistical Sciences 2037A/B if taken prior to Fall 2010, former Psychology 2885 (Brescia), former Statistical Sciences 2122A/B, former Social Work 2205.

Prerequisite(s): 1.0 course from Geography 1100, Geography 1200A/B, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G; or enrolment in the Major in Physical Geography or in an Honours Earth Science Program for Professional Registration.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2230A/B REMOTE SENSING

Prerequisite(s): 1.0 from Geography 1100, Geography 1200A/B, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G; or registration in a module in Science or in Engineering, in the Major in Physical Geography, or in the Commercial Aviation Management program in MOS.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2240A/B INTRODUCTORY CARTOGRAPHY

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G; or enrolment in the Major in Physical Geography; or registration in the Commercial Aviation Management program in MOS.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2310A/B WEATHER AND CLIMATE

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B; or 0.5 course from Mathematics, Applied Mathematics, Calculus, Environmental Science or Physics at 1000-1999 level; or enrolment in the Major in Physical Geography or in an Honours Earth Science Program for Professional Registration.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2320A/B INTRODUCTORY BIOGEOGRAPHY

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G; or enrolment in the Major in Physical Geography.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2330A/B GEOMORPHOLOGY AND HYDROLOGY

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B (taken after September 2012); or 0.5 course from Earth Sciences 1022A/B, Earth Sciences 1070A/B, Earth Sciences 1081A/B, or Environmental Science 1021F/G; or enrolment in the Major in Physical Geography or in an Honours Earth Science Program for Professional Registration.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2410A/B SOCIAL GEOGRAPHY

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G, or enrolment in any of the Global Culture Studies modules.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2411F/G INDIGENOUS ENVIRONMENTS

Antirequisite(s): Indigenous Studies 2601F/G.
Prerequisite(s): 1.0 course from Environmental Science 1021F/G, Indigenous Studies 1020E, Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B; Women's Studies 1020E, Health Sciences 1001A/B and Health Sciences 1002A/B; Sociology 1020, Sociology 1021E, Sociology 1025A/B, Sociology 1026F/G, Sociology 1027A/B or enrolment in the Major in Ecosystem Health or in any of the Globalization Studies modules, or permission from the Instructor.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2420A/B ECONOMIC GEOGRAPHY

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G; Economics 1021A/B, Economics 1022A/B; MOS 1021A/B, MOS 1023A/B, or enrolment in any of the Globalization Studies modules.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2430A/B PUBLIC HEALTH AND ENVIRONMENT

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G; Health Sciences 1001A/B and Health Sciences 1002A/B; Sociology 1020, Sociology 1021E, Sociology 1025A/B, Sociology 1026F/G, Sociology 1027A/B or enrolment in the Major in Ecosystem Health or in any of the Global Development Studies modules, or permission of the instructor.

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Geography 2460F/G INTRODUCTION TO URBAN DEVELOPMENT

Prerequisite(s): 1.0 course from Geography 1100, **Geography 1200A/B**, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B, Environmental Science 1021F/G, or Economics 1021A/B or Economics 1022A/B, or enrolment in any of the Global Development Studies or Globalization Studies modules.

Indigenous Studies

Effective, September 1, 2020, the following change(s) be made: Course Pre or Corequisite Revision.

Indigenous Studies 2601F/G INDIGENOUS ENVIRONMENTS

Antirequisite(s): Geography 2411F/G.

Prerequisite(s): 1.0 course from Environmental Science 1021F/G, Indigenous Studies 1020E, Geography 1100, Geography 1300A/B, Geography 1400F/G, Geography 1500F/G, Geography 2131A/B, **Geography 2132A/B, Geography 2133A/B, Geography 2142A/B, Geography 2152F/G, Geography 2153A/B**, Health Sciences 1001A/B, Health Sciences 1002A/B, Sociology 1020, Sociology 1021E, Sociology 1025A/B, Sociology 1026F/G, Sociology 1027A/B or enrolment in the Major in Ecosystem Health or in any of the Globalization Studies modules, or permission from the Instructor.

Approval Route: Minor Change

Faculty of Engineering

Mechatronic Systems Engineering

Effective, September 1, 2020, the following change(s) be made: Other Course Revision (i.e. hours, suffix... etc.).

Mechatronic Systems Engineering 3301A/B – MATERIALS SELECTION AND MANUFACTURING PROCESSES

Extra Information: 3 lecture hours, 2 tutorial hours. Restricted to students enrolled in the **Integrated or** Mechatronic Systems Engineering program.

Schulich School of Medicine & Dentistry

Dentistry

Effective, September 1, 2020, the following change(s) be made: Other Course Revision (i.e. hours, suffix... etc.).

The effective date of the withdrawal of **Dentistry 5325** (approved November 16, 2019 on DAP) has been retroactively changed from **September 1, 2020**, to **September 1, 2021**.