Course coordinator and lecturer: Dr. Francis Choy, Cunningham Building Room 062.
Tel. 721-7107, Email: FCHOY@UVIC.CA.


Method of grade assignment: Midterm exams, 50%; final exam, 50%. The format of both exams will be essays, short answers, and multiple choice.
Grades: ≥90% = A+, ≥85% = A, ≥80% = A-; ≥77% = B+; ≥73% = B; ≥70% = B-; ≥65% = C+, ≥60% = C, ≥50% = D; below 50% = F. There will be no E grade nor supplementary examination.

Tentative Schedule
Jan.4, 7 Organization and expression of the human mitochondrial genome; biochemical & molecular genetics of mitochondria enzymopathies
Jan 11 Current Prevention of Mitochondria DNA Diseases; Mt genomics & anthropology
Jan 14 Organization and expression of the human nuclear genome
Jan 18, 21 Human multigene families: evolution and implications in genetic diseases
Jan 25, 28 Molecular genetics of the HLA (human leukocyte antigen) and Immunogenetics I
Feb 1 1st mid-term exam
Feb 4 Immunogenetics II
Feb 8-12 Reading break
Feb 15, 18 Molecular genetics of hemoglobinopathies
Feb 22, 25 Biochemical and molecular genetics of diabetes
Feb 29, March 29 Genetic screening and population genetics I & II
March 7 2nd mid-term exam
March 10 Treatment for genetic diseases I: Molecular basis of gene therapy
March 14 Treatment for genetic disease II & III: Gene therapy in cancer & new approaches in enzyme-replacement therapy
March 17 Guest lecture by Chloe Christensen, M.Sc. candidate in Biology: CRISPR-Cas9 technology for genome editing and DNA repair
March 21 Treatment of brain disease: Overcoming the blood brain barrier
March 26 Guest lecture by Dr. Graham Sinclair: Integrating genomics into the investigation of inborn errors of metabolism
March 28 Easter Monday
March 31 Pharmacogenetics

Final Examination, date and place TBA