

UNIVERSITY OF CALGARY  
DEPARTMENT OF BIOLOGICAL SCIENCES  
COURSE OUTLINE

1. Course: **CMMB 413 – Human Genetics**

Lecture Sections: L01 Tuesday & Thursday 8:00-9:45 ES 162 Winter 2015

**Instructor(s):**

Dr. Chris Wang	<a href="mailto:clcwang@ucalgary.ca">clcwang@ucalgary.ca</a>
Dr. Judy Chernos	<a href="mailto:judy.chernos@albertahealthservices.ca">judy.chernos@albertahealthservices.ca</a>
Dt. Janette VanDenBerghe	<a href="mailto:Janette.VandenBerghe@cls.ab.ca">Janette.VandenBerghe@cls.ab.ca</a>
Dr. Ryan Lamont	<a href="mailto:ryan.lamont@albertahealthservices.ca">ryan.lamont@albertahealthservices.ca</a>
Dr. Bob Argiropoulos	<a href="mailto:bob.argiropoulos@albertahealthservices.ca">bob.argiropoulos@albertahealthservices.ca</a>

Coordinator of Medical Genetics Instructors: Dr. Chris Wang [clcwang@ucalgary.ca](mailto:clcwang@ucalgary.ca)

D2L course name: CMMB 413 L01 - (Winter 2015) - Human Genetics

Biological Sciences Department BI 186; (403) 220-3140; biosci@ucalgary.ca

2. **PREREQUISITES:** Biology 311 or MDSC 341

**NOTE:** Students may not register in a course unless they have a grade of at least C- in each prerequisite course.  
See section 3.5.C in the Faculty of Science section of the online Calendar  
(<http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>)

3. **GRADING:** The University policy on grading and related matters is described in “Academic Regulations, sections F.1 and F.2” of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/f-1.html> and <http://www.ucalgary.ca/pubs/calendar/current/f-2.html>) In determining the overall grade in the course the following weights will be used:

<b>Midterm Exam #1</b>	<b>30 %</b>
<b>Midterm Exam #2</b>	<b>30 %</b>
<b>Final Exam</b>	<b>40%</b>

(There will be a final exam scheduled by the Registrar's office.)

Each component (midterm exams or final exam) submitted by the student will be assigned a percentage score. The student's weighted percentage scores for the various components listed above will be combined to produce an overall percentage for the course, which will be used to determine the course letter grade.

4. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in section 3.6: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.

5. Dates and times of class exercises held outside of class hours: N/A

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

Department Approval \_\_\_\_\_ ORIGINAL SIGNED \_\_\_\_\_ Date \_\_\_\_\_  
M413 CO W15; 08/01/2015 09:11

6. **EXAMINATION POLICY:** No electronic or written aids (eg. cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. Non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper. Students should also read the Calendar, Section G, on Examinations: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.
7. In this course, the quality of the student's writing in examinations will be a factor in the evaluation of those examinations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-2.html>."
8. **STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS.** Students are expected to be familiar with <http://www.ucalgary.ca/pubs/calendar/current/sc-5-1.html> of the on-line calendar. See also <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>.
9. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**
- (a) **ACADEMIC MISCONDUCT (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under K. Student Misconduct (<http://www.ucalgary.ca/pubs/calendar/current/k.html>) to inform yourself of definitions, processes and penalties**
- (b) **ASSEMBLY POINTS in case of emergency during class time. Be sure to FAMILIARIZE YOURSELF with the information at <http://www.ucalgary.ca/emergencyplan/assemblypoints>.**
- (c) **ACADEMIC ACCOMMODATION POLICY.** Students with documentable disabilities are referred to the following links:  
Calendar entry on students with disabilities: <http://www.ucalgary.ca/pubs/calendar/current/b-1.html>  
Student Accessibility Services: [www.ucalgary.ca/access](http://www.ucalgary.ca/access)
- (d) **SAFEWALK:** Campus Security will escort individuals day or night <http://www.ucalgary.ca/security/safewalk/>). Call **220-5333** for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **FREEDOM OF INFORMATION AND PRIVACY:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, **students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page.** For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **STUDENT UNION INFORMATION:** VP Academic **Phone:** 220-3911 **Email:** [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca).  
SU Faculty Rep. **Phone:** 220-3913 **Email:** [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca)  
Website <http://www.su.ucalgary.ca/home/contact.html>.  
Student Ombudsman: [www.ucalgary.ca/provost/students/ombuds](http://www.ucalgary.ca/provost/students/ombuds); [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca) 220-6420
- (g) **INTERNET and ELECTRONIC COMMUNICATION DEVICE Information.** You can assume that in all classes that you attend, **your cell phone should be turned off.** Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.

UNIVERSITY OF CALGARY  
DEPARTMENT OF BIOLOGICAL SCIENCES  
COURSE OUTLINE  
**CMMB 413**

**HUMAN GENETICS**

TERM: Winter 2015 SECTION NO: L01

PREREQUISITE: Biology 311 or MDSC 341  
A student may not register in a course unless he/she has a grade of at least C- in each prerequisite course.

COURSE COORDINATOR: Dr. Chris Wang clcwwang@ucalgary.ca

LECTURE: 01 TR 8:00-9:45 ES 162

TEXT: Required: Genetics in Medicine, Nussbaum, R.L., R.R. McInnes and H.F. Willard, 7<sup>th</sup> Edition - 2007, Saunders.

MARK DISTRIBUTION: A. Composition of Final Grade

Midterm Exam #1	30%
Midterm Exam #2	30%
Final Exam	40%

B. Final Exam  
There will be a final examination scheduled by the Registrar's Office.

EXPECTED STUDY TIME: At least two hours of study per one-hour lecture plus preparation time for tutorials.

**CMMB 413 Human Genetics****Lecture and Tutorial Schedule Winter – 2015 (Tentative)****Location – ES 162**

<b>Date</b>	<b>Topic</b>	<b>Instructor</b>
January 13	Introduction & Chapter 2	CW
January 15	Chapter 5: Principal of Clinical Cytogenetics	CW
January 20	Chapter 5	CW
January 22	Chapter 5	CW
January 27	Chapter 6: Clinical Cytogenetics: Disorders of Autosomes and Sex Chromosomes	CW
January 29	Chapter 6	CW
February 3	Chapter 6	CW
February 5	Mid-term Exam # 1 – In Class	
February 10	Chapter 9: Population Genetics	JC
February 12	Chapter 9: Complex Traits	JC
February 17	No Lecture- Reading Week	N/A
February 19	No Lecture- Reading Week	N/A
February 24	Chapter 9: Complex Traits	JC
February 26	Chapter 12: The Molecular, Biochemical, and Cellular Basis of Genetic Disease	CW
March 3	Chapter 12	CW
March 5	Chapter 13: Treatment of Genetic Disease	CW
March 10	Chapter 13:	CW
March 12	Mid-term Exam # 2 – In Class	
March 17	Cancer Genetics	JvdB
March 19	Cancer Genetics	JvdB
March 24	Molecular Genetics	RL
March 26	Molecular Genetics	RL
March 31	Molecular Genetics	RL
April 2	Epigenetics	BA
April 7	Epigenetics	BA
April 9	Medical Gen/Genetic Counseling	AS
April 14	Course Review	CW

## Letter Grade Scale

90 and over = A +  
85 and over = A  
80 and over = A-  
77 and over = B+  
73 and over = B  
70 and over = B-  
67 and over = C+  
63 and over = C  
60 and over = C-  
55 and over = D+  
50 and over = D  
under 50 = F