

Selected Topics in Kinesiology I

Biomedical Physio and Kines 420

Section: D100

Term: 2014 Spring

Instructor: Instructor:

Dr. Angela Brooks-Wilson

Office: K9626

Office Phone: (Thursdays, some Tuesdays)

Other Phone: (Mondays, most Tuesdays)

Discussion Topics: Lecture: Thursdays,

Time:

Room number: SWH10051

Tutorials: Tuesdays

Hours per week:

BPK 420: 2 lecture hours, 1 tutorial hour

BPK 806: 2 lecture hours, 2 hours grad discussion

Course Description: This course is intended for students with an interest in health, human health research, human genetics, physiology or medical sciences, who do not yet have an extensive background in genetics (though students with a strong genetics background may take this course for interest). The course will cover 5 main areas: 1) Pedigrees and inheritance, 2) The human genome, 3) Human genetics research, 4) Ethical issues in human genetics and 5) Genomics in medicine.

Grading: Assignments and Evaluation:

Assignments and exams for evaluation will be preceded by tutorial exercises designed to enhance learning and to help students prepare for graded work.

BPK 4XX:

25% midterm exam

25% short assignments

10% critique of a research paper**

25% final exam

BPK 8XX:

10% midterm exam

70% weekly critique of research papers

10% final exam

N/A

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5% participation in tutorials

10% participation in grad discussion group

Note: Mid-term and final exams will be the same material for undergraduate and graduate students; they will make up 50% of the undergraduates but only 20% of the graduate students final grade.

*Presented verbally in grad discussion group.

**Introduces undergraduates to the concept of being critical of research papers. Critique will be done in the form of a structured review (used by many journals) but will be very brief (~2 pages).

Students needing accommodations due to a disability must contact the Centre for Students with Disabilities (778-782-3112 or csdo@sfu.ca)

Required Texts: Course Materials: Thompson & Thompson Genetics in Medicine, 7th ed.

by Nussbaum, McInnes and Willard

Available as a hard copy book or online e-book

1 copy will be on reserve in the library

Links to additional materials will be on a course website

Recommended Texts:

Materials/Supplies:

Prerequisite/Corequisite: Prerequisites: MBB 201 or MBB 222 or BISC 202, at least 90 credit hours. (Please note that BISC 202 is being added to the BPK undergraduate curriculum; in the future it will become the pre-requisite for this course).

BPK 420 and MBB 438 will normally be offered in opposite years to maximize flexibility for students.

Notes: Students are subject to and responsible for being familiar with the SFU academic integrity policy at <http://students.sfu.ca/academicintegrity/index.html>

Students are advised to review the plagiarism tutorial at:
<http://www.lib.sfu.ca/help/tutorials/plagiarism-tutorial>

For assistance with writing, learning and study strategies contact the Student Learning Commons at <http://learningcommons.sfu.ca/>

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.