Welcome to KIN 304W
Inquiry and Measurement in Kinesiology

Spring 2013

Simon Fraser University

Dr. Dawn Mackey

dmackey@sfu.ca

Office: K8629

Today's Agenda

- Introductions

- Course description

- Course goals

- Course logistics

- Questionnaire

- Begin week 1 lecture: Scientific Method

My Background

SFU
BSc Hon Kin
MSc Kin

UC Berkeley PhD Epidemiology

UC San Francisco
Post Doc Epidemiology

SFU Aging and Population Health Laboratory

Context: By 2031, ~25% of Canadians will be 65+ years

Challenge: Help older adults live active and independent lives and avoid debilitating injuries

Approach: Etiology, prevention, & management of age-related diseases

UBC

SFU

fraserhealth
Better health. Best in health care.

CENTRE for HIP Health and Mobility

UNIVERSITY OF WATERLOO

CIHR IRSC

DRUMMOND FOUNDATION

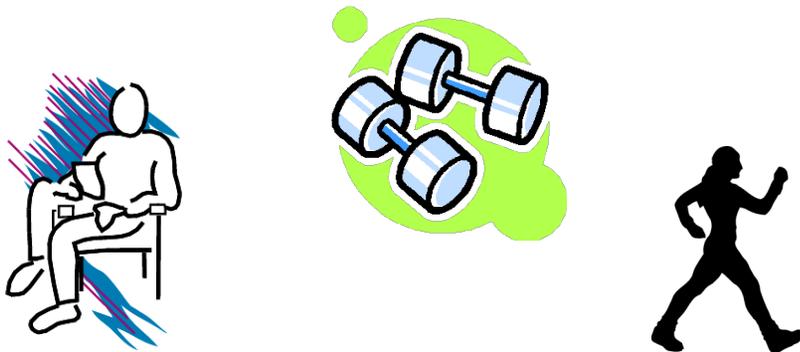| ETIOLOGY	PREVENTION	MANAGEMENT

Flooring for Injury Prevention (FLIP) Trial

HealthySteps: RCT of Exercise to Improve Walking Energetics, Fatigue, and Activity

Immunizing Canadian Seniors Against Inactivity: A Planning Grant

Life-Space: It Matters How Far Away From Home You Go

Course Description

In Kin 304W, we emphasize:

1. Application of statistical methods to data analysis

2. Scientific writing

3. Methods of data acquisition

Course Goals

Students will build
competence and skills in

- Research design
- Data analysis
- Scientific writing

As your instructor,
I strive to be

- Organized
- Accessible
- Responsive
- Fair

I hope this course is fun!

Course Logistics

- ## Lectures:
  - Tuesdays, 10:30 am - 12:20 pm, C 9000
  - Fridays, 10:30 - 11:20 am, AQ 3005

- ## Tutorials/Lab:
  - Fridays: 11:30-12:20 pm; 12:30-1:20 pm; 1:30-2:20 pm; 2:30-3:20 pm
  - Start Friday, Jan 18, AQ 3148.B

- ## Office Hours:
  - Dr. Mackey: Fridays, 9:00-10:00 am, K8629

Friday labs and office hours begin on Jan 18.

There is no lecture this Friday, Jan 11.

Course Logistics

- **Course Website:**
  - www.sfu.ca/~dmackey

- **Text:**
  - Inquiry & Measurement in Kinesiology, Ward 2005
  - Custom text written specifically to cover the diverse topics in this course
  - Chapters are posted as .pdf files on the course website at **no charge**

- **Software:**
  - We will use EXCEL and SPSS for data analysis
  - You do NOT need to buy SPSS to do well in this course. However, if interested, students can purchase SPSS http://www.sfu.ca/its-dav/software/spss/21/windows/ (click on the link for OnTheHub)
    - Standard GradPack 21 for Windows (12-Mo Rental) $109.99 + $4.99
    - Standard GradPack 21 for Windows (6-Mo Rental) $62.92 + 4.99

Course Logistics

- I will post lecture slides (.pdf) on the course website before lecture begins

  - These will be password protected. The password is "easy".

- I think you will find the amount and pace of course material quite manageable

Your Teaching Team

- I will give the lectures

  – You can access me before lecture, during break time, after lecture, during office hours, and by email (I aim to respond in 48 hrs)

  – I will compile & send student email questions and responses pertinent to course content anonymously to the course email list throughout the semester (kin304w-d100@sfu.ca)

- TA (Lauren Tindale) will instruct all computer tutorials/labs

- Writer Marker (Perveen Biln) will mark your projects

Tutorials/Labs

- These will be held in a computer teaching lab

- You will gain hands-on experience with data analysis in SPSS and EXCEL

- Each week you will get a data set and instructions on what to do with the data

- I will "preview" the labs in Friday lecture

Project

- The term project consists of writing a scientific journal article based on results you obtain from a data analysis that we will all do in lab in Week 5.

- You'll write the journal article in stages:

  - Project Part I = Results section, Tables, Figures

  - Project Part II = Abstract, Introduction, Methods, Discussion, References

  - Both parts of the project will be graded and returned to you during the semester. You will hand in a final revised version of your journal article at the Final Exam.

- The topic for everyone's journal article will be the same.

- I will introduce the project more completely in Week 5.

Evaluation

- Lab results sheets (weekly)   4%
- Lab midterm 1 (week 8)   6%
- Lab midterm 2 (week 13)   5%
- Project Part I (Results section)
  - 1st submission (week 8)   10%
  - 2nd submission (at final exam)   5%
- Project Part II (Complete journal article)
  - 1st submission (week 12)   30%
  - 2nd submission (at final exam)   5%
- Final Exam   35%

Attendance

- **Strongly** recommended

- I will not record lectures

- On or before Jan 15, please notify me of planned absences for religious holidays or university functions (e.g., travel for athletic competitions)

- See the course website for attendance policy and what to do if you miss a marked component of the course due to illness

How Can You Enhance Your Learning?

- Attend lectures

- Attend labs

- Practice the labs each week

- Read textbook chapters <u>before</u> lecture

- Form small study groups with other students

- Ask questions

How Should You Study?

- Lab midterms
  - Re-do the lab assignments
  - Think about types of questions I may ask

- Final Exam
  - Majority of material will be drawn from lectures
  - PowerPoint slides
  - Course text

Course Website

www.sfu.ca/~dmackey

Wait List

- Maximum enrollment is 72; limited by the size of the computer labs

- Students will be automatically entered from the wait list if a spot opens up in the first week

- If you don't get in this semester, I will be teaching Kin 304W again in Summer 2013

Questionnaire

- Your opportunity to tell me a bit about yourself.

- Then we will start on the Week 1 lecture: The Scientific Method