

**EPIB 613 –Introduction to Statistical Software (1 credit)**

**TIME and PLACE:** Thursday 10:35-12:25 PM Leacock 212

**CO-INSTRUCTORS:**

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Office hours are by appointment.

**Prerequisites:** Enrollment in Epidemiology Programs; EPIB 601, 602 and 607

**Evaluation:** Pass/Fail based on class attendance and completion of in-class assignments

**Course Objectives:**

This course will introduce the student to statistical software and fundamentals of data management. This will include the basics of entering, manipulating data and elementary statistical analysis for epidemiologic research using STATA and R.

**Course Website:** <http://www.medicine.mcgill.ca/epidemiology/Joseph/EPIB-613.html>

**Class Schedule**

<b>Class</b>	<b>Date</b>	<b>Topic</b>	<b>Lecturer</b>
1	Thursday, Sept 06	R Introduction	LJ
2	Thursday, Sept 13	R Data Entry and Manipulation	LJ
3	Thursday, Sept 20	R Basic Analysis and Graphics	LJ
4	Thursday, Sept 27	R Programming and Functions	LJ
5	Thursday, Oct 04	Stata Getting Started	JK
6	Thursday, Oct 11	Stata Data Management	JK
7	Thursday, Oct 18	Stata Variables and Data	JK
8	Thursday, Oct 25	Stata Calculations	BM
9	Thursday, Nov 01	Stata Labels and Formats	JK
10	Thursday, Nov 08	Stata General Data Analysis	BM
11	Thursday, Nov 15	Stata Epidemiologic Analysis	BM
12	Thursday, Nov 22	Stata Graphing Data	BM
13	Thursday, Nov 29	Stata Programming	BM & JK

### **Stata Classes:**

Each class will consist of 50 minutes of lecture, followed by lab time of up to one hour in which to complete an assigned set of exercises. Students should e-mail their completed assignments (in the form of .do files) to: [epib613@gmail.com](mailto:epib613@gmail.com) within 7 days.

### **Purchasing Stata:**

Purchasing Stata 12: You can purchase STATA by going to their website [here](#), where you should specify JSK11 for the GRADPLAN ID in order to obtain the student discount. There are several options for purchasing Stata. We recommend that you purchase the perpetual license of STATA/IC 12. You should NOT purchase Small STATA, as it will not be sufficient for the master's level courses.

**Optional Stata Resource:** An Introduction to Stata for Health Researchers (3rd edition) by Svend Juul and Morten Frydenberg, 2010 Stata Press.

### **\*\*\*\*NOTICE REGARDING ACADEMIC INTEGRITY AND PLAGIARISM\*\*\*\***

The Department of Epidemiology and Biostatistics has asked instructors to remind students of McGill University regulations regarding academic integrity and plagiarism.

#### **Academic offences**

The integrity of University academic life and of the degrees the University confers is dependent upon the honesty and soundness of the teacher- student learning relationship and, as well, that of the evaluation process. Conduct by any member of the University community that adversely affects this relationship or this process must, therefore, be considered a serious offence.

#### **Plagiarism**

(a) No student shall, with intent to deceive, represent the work of another person as his or her own in any academic writing, essay, thesis, research report, project or assignment submitted in a course or program of study or represent as his or her own an entire essay or work of another, whether the material so represented constitutes a part or the entirety of the work submitted.

(b) Upon demonstration that the student has represented and submitted another person's work as his or her own, it shall be presumed that the student intended to deceive; the student shall bear the burden of rebutting this presumption by evidence satisfying the person or body hearing the case that no such intent existed, notwithstanding Article 22 of the Charter of Student Rights.

(c) No student shall contribute any work to another student with the knowledge that the latter may submit the work in part or whole as his or her own. Receipt of payment for work contributed shall be cause for presumption that the student had such knowledge; the student shall bear the burden of rebutting this presumption by evidence satisfying the person or body hearing the case that no such intent existed (notwithstanding Article 22 of the Charter of Students' Rights).

Downloaded and excerpted from A Handbook on Student Rights and Responsibilities, 2003, p. 17. Available on-line at <http://upload.mcgill.ca/secretariat/greenbookenglish.pdf>

Additional information is available at [www.mcgill.ca/integrity/](http://www.mcgill.ca/integrity/)

#### **Right to submit in English or French written work that is to be graded**

[approved by Senate on 21 January 2009]:

*In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.*