Navigation Guide for Course Website and My Learning Space (MLS)

Using PS394 as an example

1. Accessing Course Resources

- **A)Course Syllabus**
- **B)SPSS Software Introduction**
- **C)Statistics Review**
- **D)Course Notes**
- **E)Quiz Background Information**

2. Accessing MLS quizzes

- **F)Accessing Quizzes**
- **G)Obtaining Data**
- **H)Using Your Attempts**
- **I)Viewing Your Quizzes**

3. Finding Help

- **J) Using the Discussion Board**
- **K) Using MLS E-mail**

4. Anything Else?

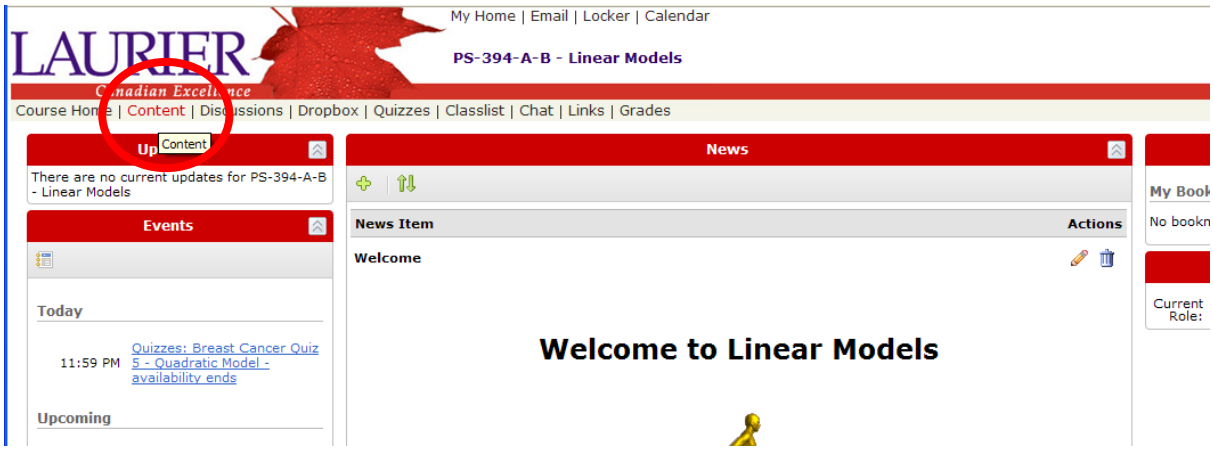
- **L)Anything to be added**

1. Accessing Course Resources

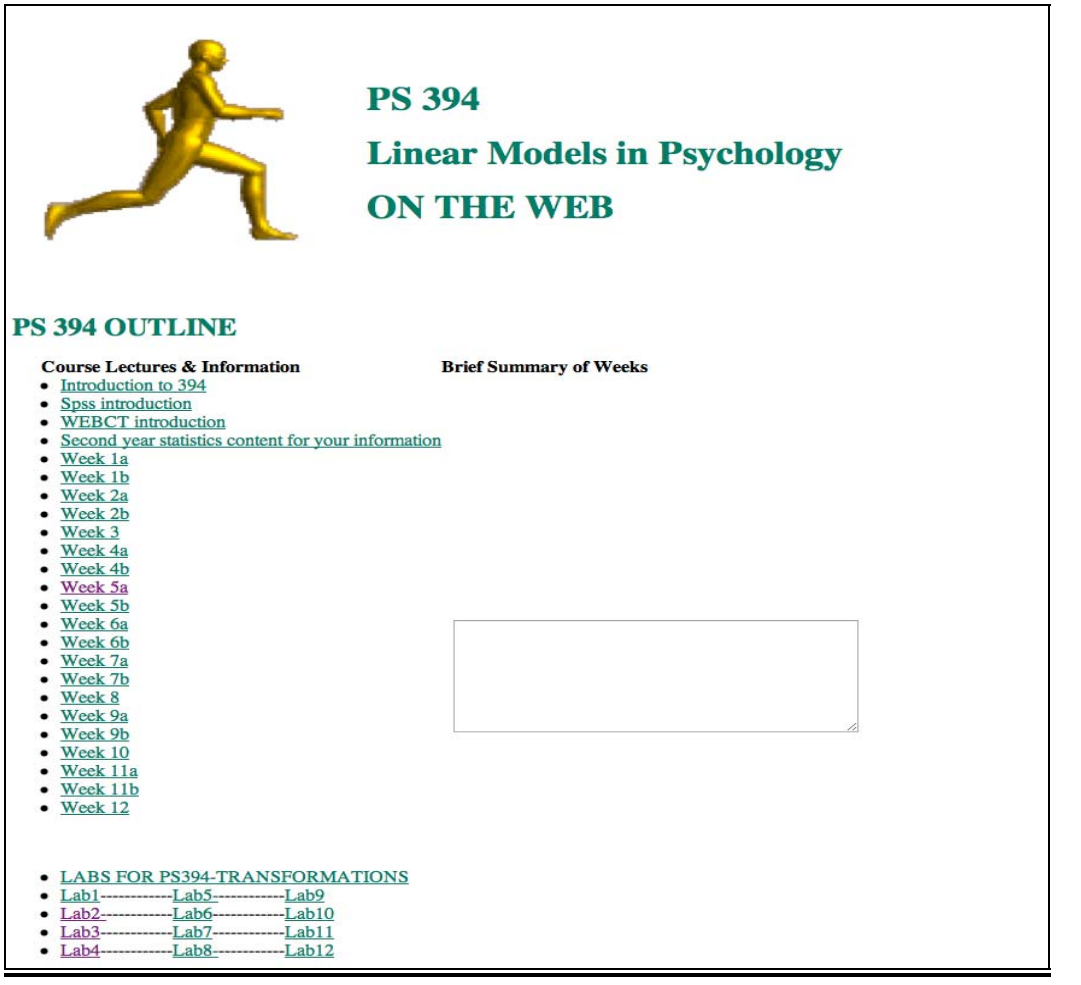
Sign into MLS using your MyLaurier E-mail sign in (i.e. smit1234) and password.

Next, click on your 'PS 394-Linear Models' in your course listings

On the Course homepage, click on the 'Content' tab



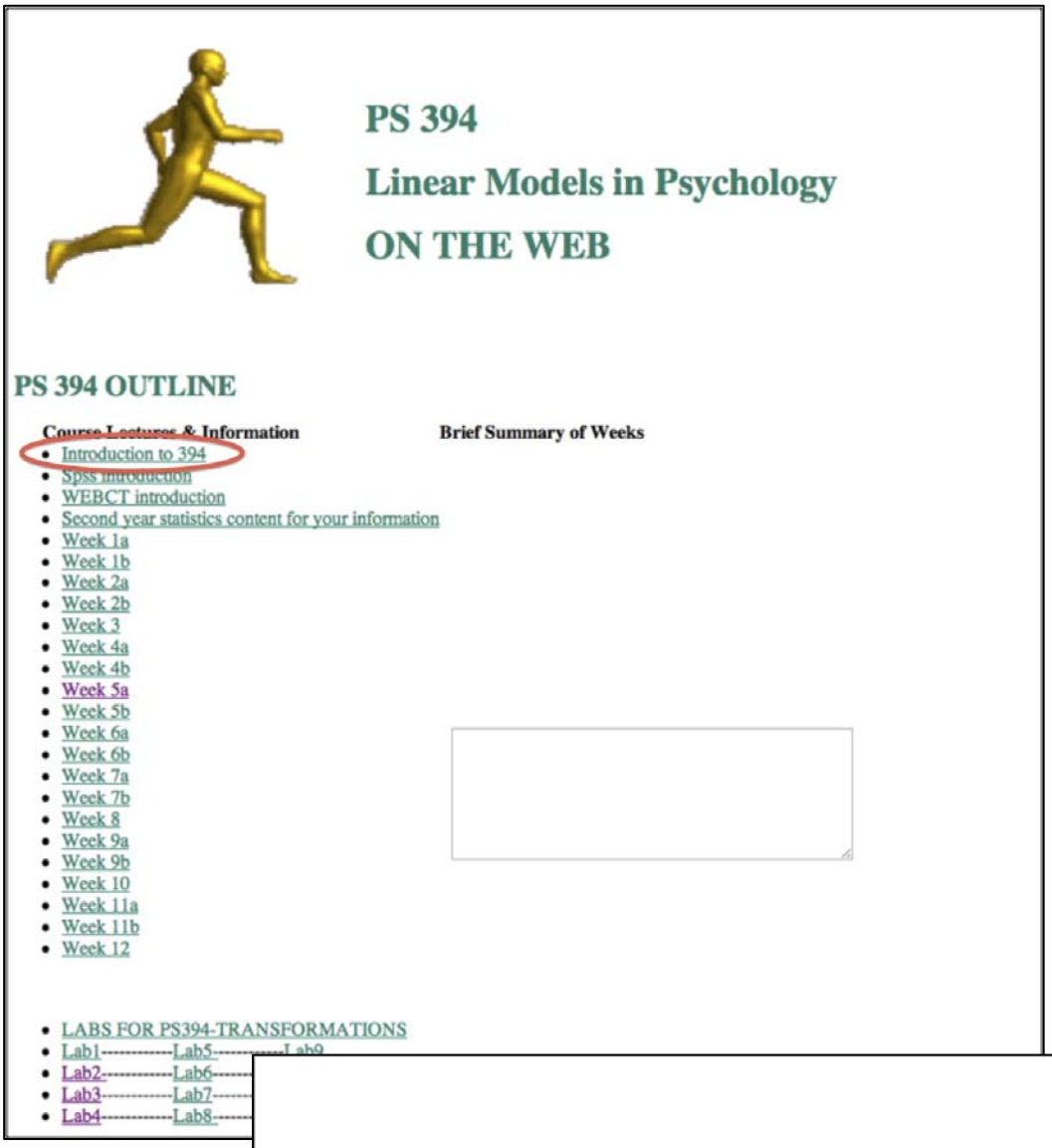
Clicking 'Course Notes', will take you to the Course Homepage:



On this page, you will be able to find i) the course syllabus, ii) an introduction to SPSS, which is the statistical software you will be using throughout the course, iii) statistics review information that you may find helpful, iv) the online textbook chapters, and v) the background information required to complete the in-lab quizzes.

A) Course Syllabus "Introduction to PS394"

-You can access the course syllabus from the following link:



PS 394

Linear Models in Psychology

ON THE WEB

PS 394 OUTLINE

Course Lectures & Information — Brief Summary of Weeks

- Introduction to 394
- Spss introduction
- WEBCT introduction
- Second year statistics content for your information
- Week 1a
- Week 1b
- Week 2a
- Week 2b
- Week 3
- Week 4a
- Week 4b
- Week 5a
- Week 5b
- Week 6a
- Week 6b
- Week 7a
- Week 7b
- Week 8
- Week 9a
- Week 9b
- Week 10
- Week 11a
- Week 11b
- Week 12

- LABS FOR PS394-TRANSFORMATIONS
- Lab1----------Lab5----------Lab9
- Lab2----------Lab6----------
- Lab3----------Lab7----------
- Lab4----------Lab8----------

This link will automatically open into the pdf file:

PS394 COURSE OUTLINE-INTRO TO LINEAR MODELS

Instructor: Robert Gebotys
Office: N2075B ,ext 3345
Office Hours: Monday 8:30-1030
Email: bgebotys@wlu.ca

Evaluation:
30% Labs/Quizzes (weekly using desire to learn software)
20% midterm
50% Final Exam

Course Notes: Free on the web www.wlu.ca/~wwwpsych/gebotys

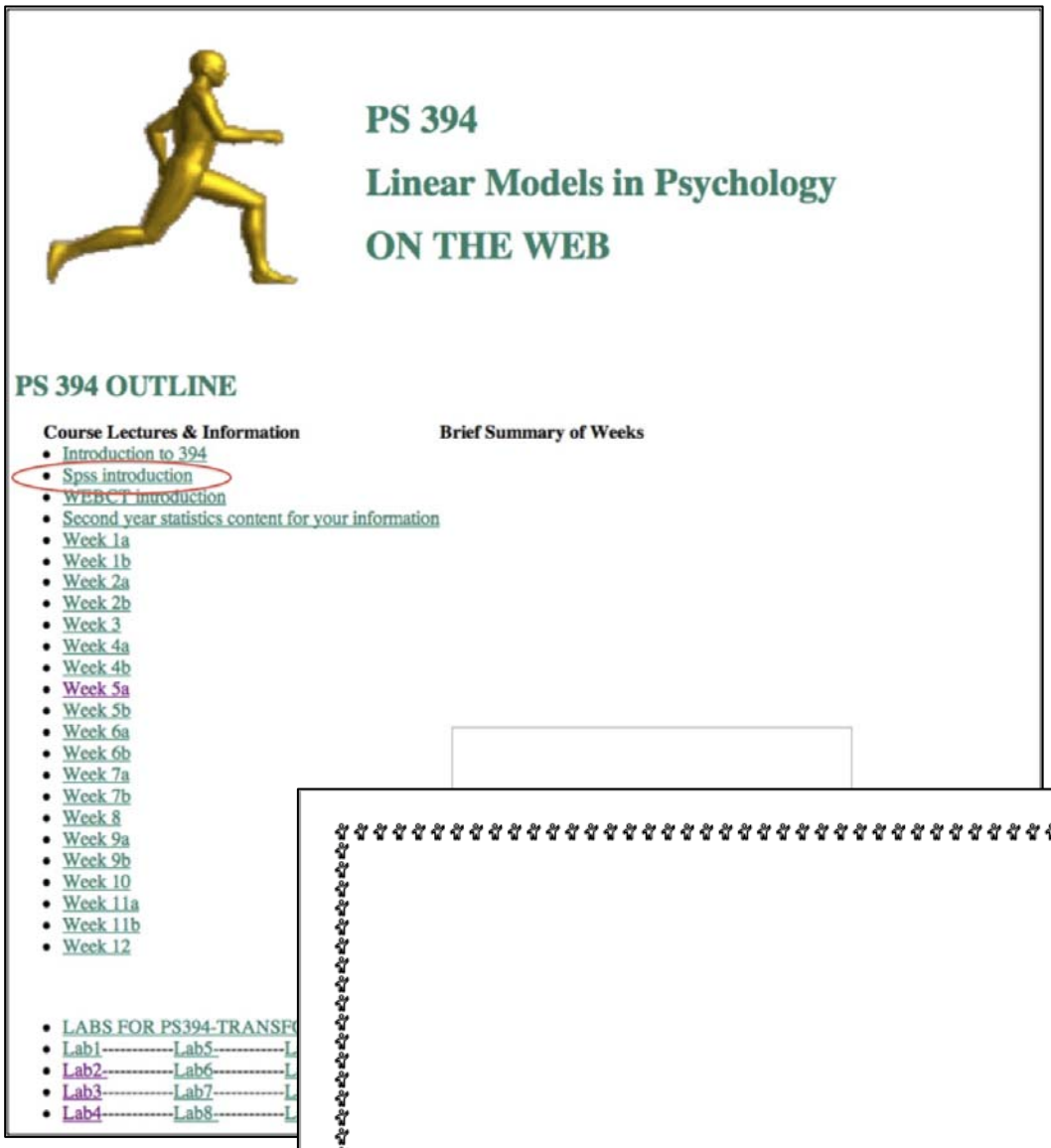
Approximate Lecture Guide

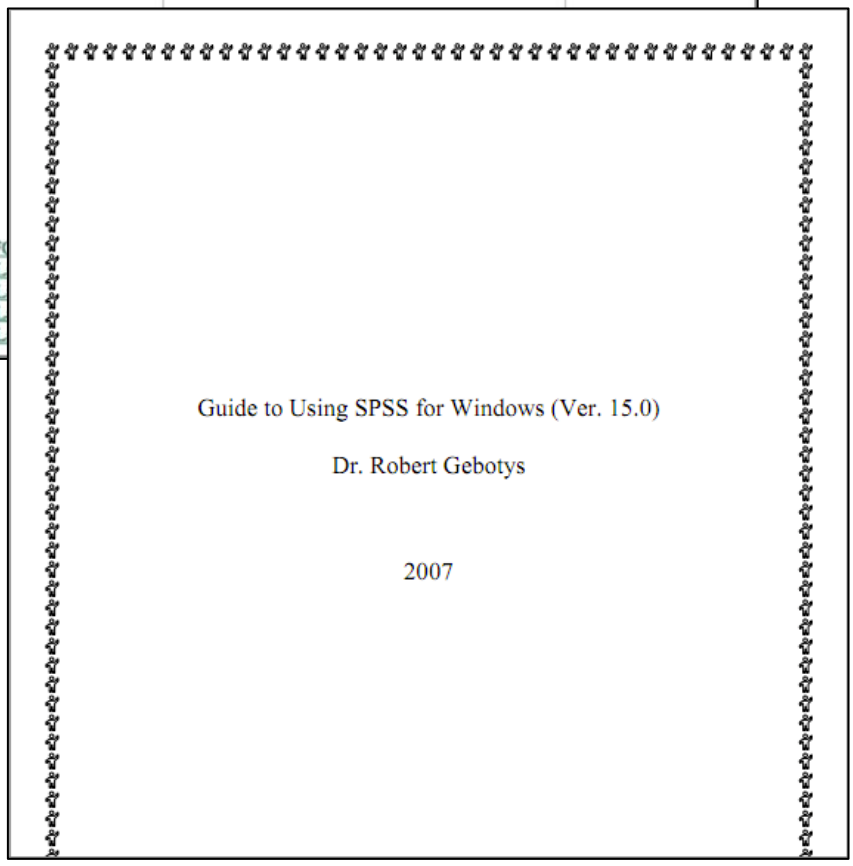
Week 1 - Week 3, Review SPSS - web- descriptive statistics sampling distribution for a statistic, inference, hypothesis testing, confidence intervals, z, t,F distribution, introduction to the linear model, residuals.

Week 4 Linear model, inference, parameters residuals, confidence intervals, R-squared, tests of hypothesis -prediction intervals.

B) "SPSS Introduction"

If you are having trouble using the SPSS statistical software, you can click the following link to access the SPSS instructions manual:



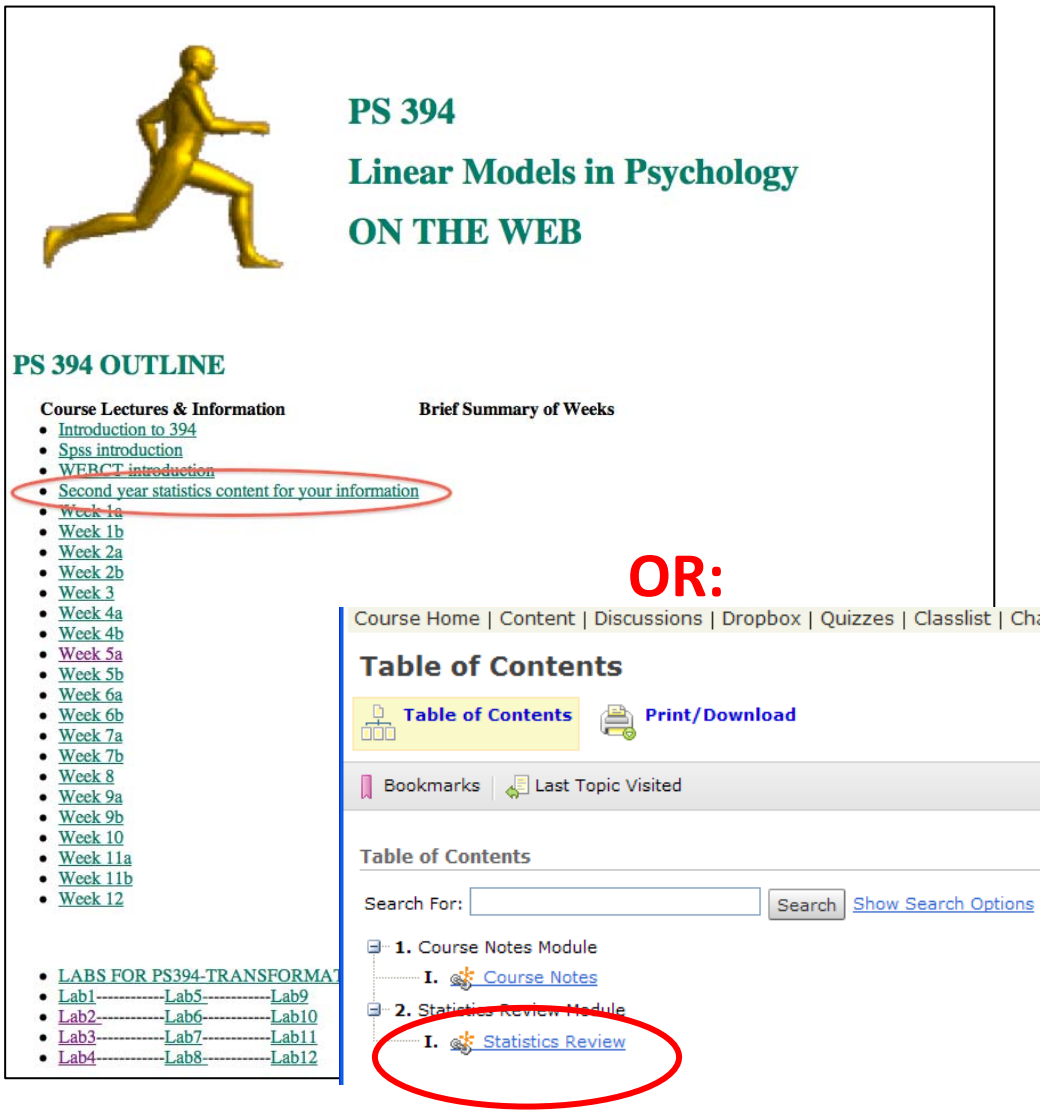


This link will automatically open into this pdf file:

C) Statistics Review "Second year statistics content for your information"

During the course, you will be required to watch a number of statistics review videos, and run a number of statistics review Java simulations, which will provide the pertinent information.

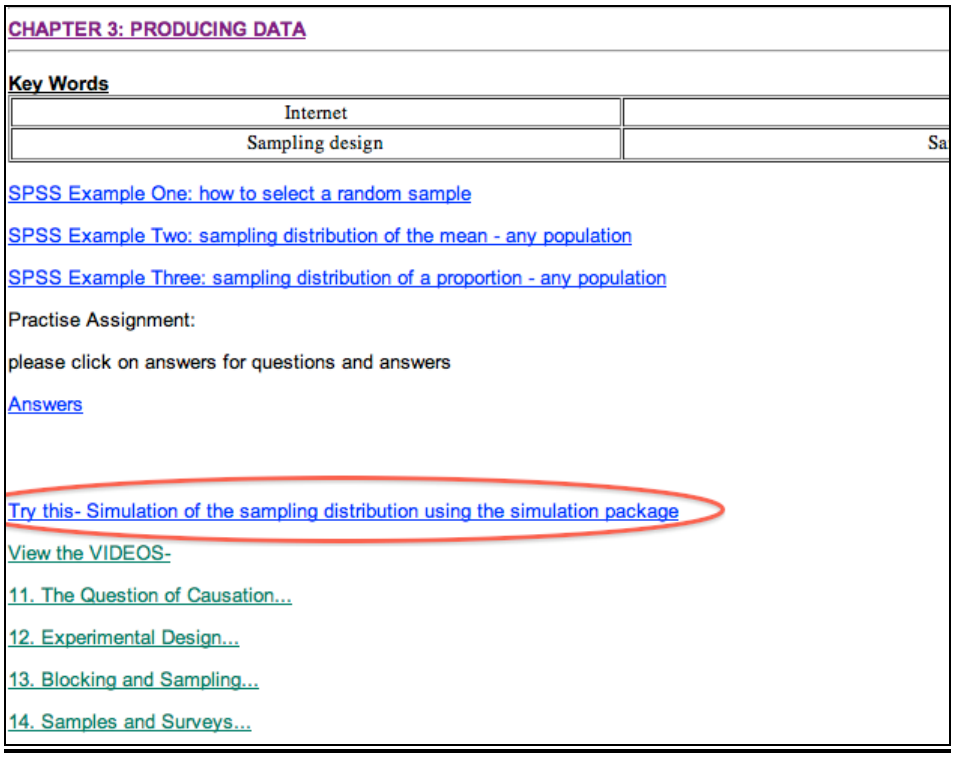
- **To access these videos, simulations, or to review material from the second year statistics course, click the link that is circled below on the website, or the link below in the MLS content page:**



Once inside the statistics review section, you will be able to find all of the statistics background information required from the second year stats course, as well as the simulations and videos needed to complete the review quizzes

EX: Ch 3. Simulation of the sampling distribution using the simulation package

For example, if you would like to refresh your knowledge about various aspects of the sampling distribution, you may find the following Java simulation helpful:



CHAPTER 3: PRODUCING DATA

Key Words

Internet	
Sampling design	Sa

SPSS Example One: how to select a random sample

SPSS Example Two: sampling distribution of the mean - any population

SPSS Example Three: sampling distribution of a proportion - any population

Practise Assignment:

please click on answers for questions and answers

Answers

Try this- Simulation of the sampling distribution using the simulation package

View the VIDEOS-

11. The Question of Causation...

12. Experimental Design...

13. Blocking and Sampling...

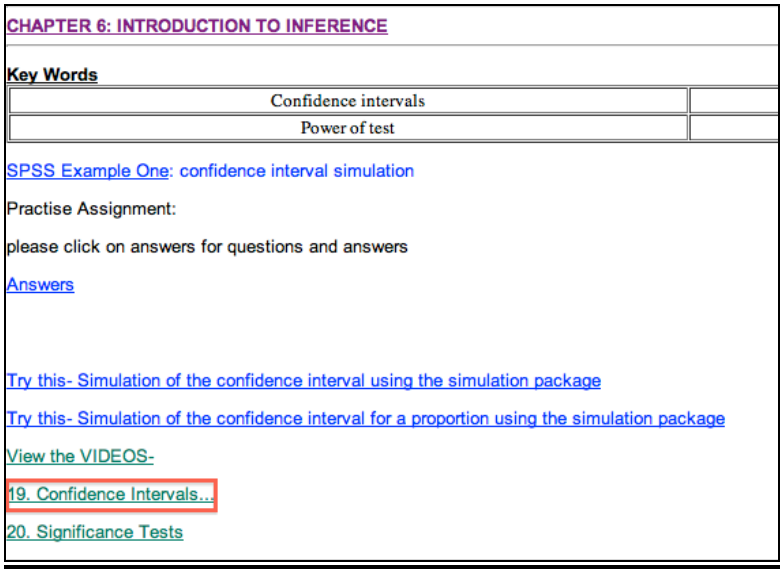
14. Samples and Surveys...

As long as you have a 32- or 64-bit version of Java installed on your computer, you will be able to run these simulations. If they are not working for you, it might be advisable to try running them on one of the campus computers, which will definitely work properly.

The simulations are fairly straightforward, and you can always contact your teaching assistant as soon as possible if you are having any trouble

EX: Ch 6 – Video 19: Confidence Intervals

In addition to the Java simulations, the review page also contains links to a video series titled "against all odds" that may also be helpful. For example, if you would like to better understand confidence intervals, you might want to check out the following video:



CHAPTER 6: INTRODUCTION TO INFERENCE

Key Words

Confidence intervals	
Power of test	

SPSS Example One: confidence interval simulation

Practise Assignment:

please click on answers for questions and answers

Answers

Try this- Simulation of the confidence interval using the simulation package

Try this- Simulation of the confidence interval for a proportion using the simulation package

View the VIDEOS-

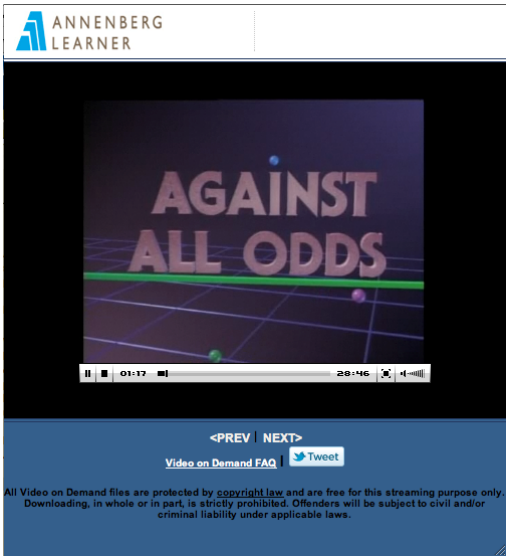
19. Confidence Intervals...

20. Significance Tests

After you click the link the "Inside the Odds" videos website will open automatically:

Scroll to the bottom of this page and click on the "VoD" (video on demand) link to the right of section "19. Confidence Intervals"

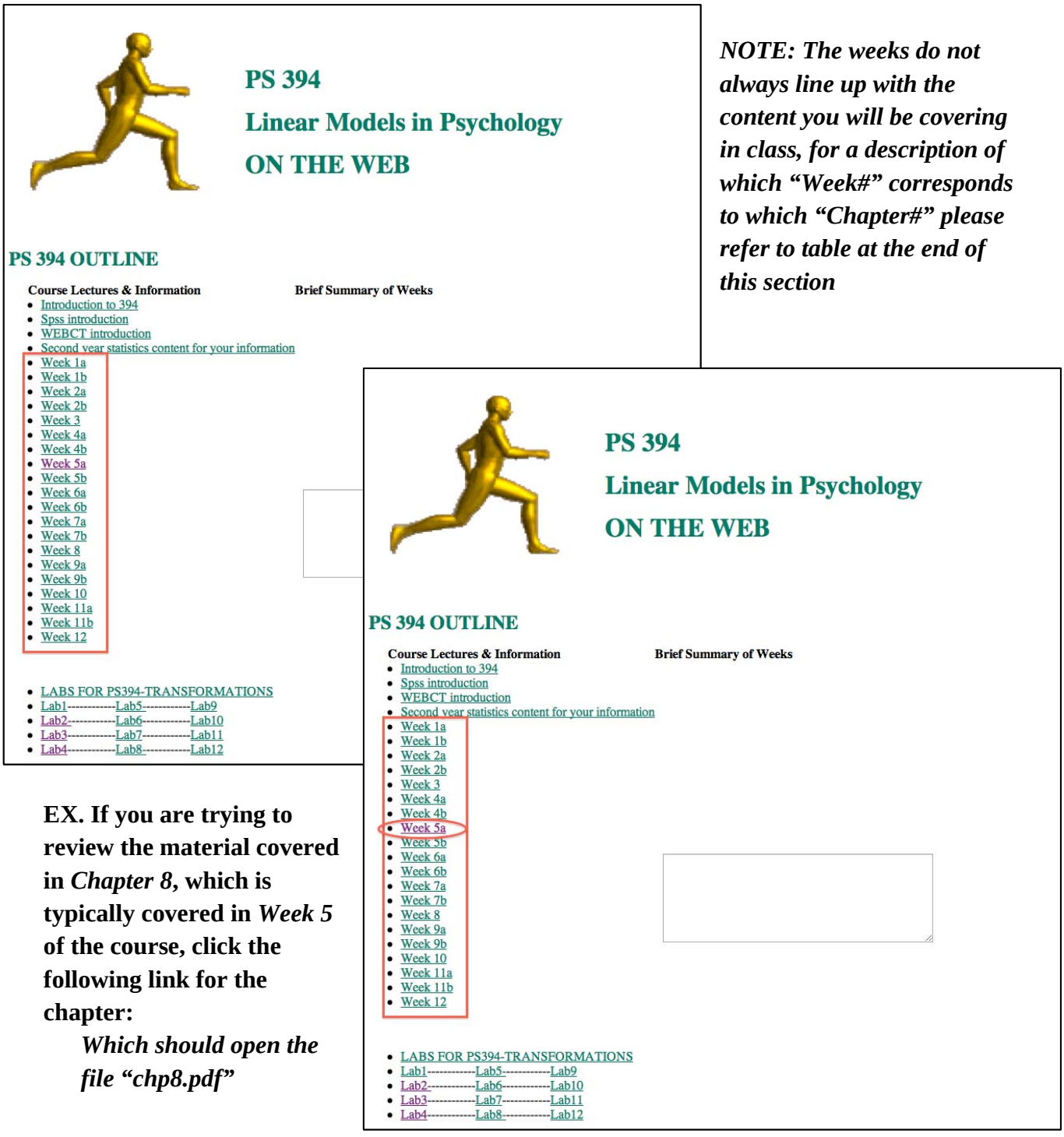
Once you have clicked the link and the following pop-out video player will appear:



Note: If it does not open, make sure that your browser is not blocking it from opening as a pop-up

Course Notes

From the *Content* section in my learning space, you will be able to access the *Course Notes* link, which should eventually redirect you to the following webpage:



PS 394
Linear Models in Psychology
ON THE WEB

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NOTE: The weeks do not always line up with the content you will be covering in class, for a description of which "Week#" corresponds to which "Chapter#" please refer to table at the end of this section

EX. If you are trying to review the material covered in *Chapter 8*, which is typically covered in *Week 5* of the course, click the following link for the chapter:

Which should open the file "chp8.pdf"

In addition to the *Chapter 8* file for *Week 5*, several of the weeks also contain instructions on how to complete the SPSS analysis for that week's quiz (ex. "Quad.pfd") Now, instead of opening a link to the chapter, this will open an instructions file on how to complete the SPSS analysis for that week's quiz, in this case "quad.pdf"

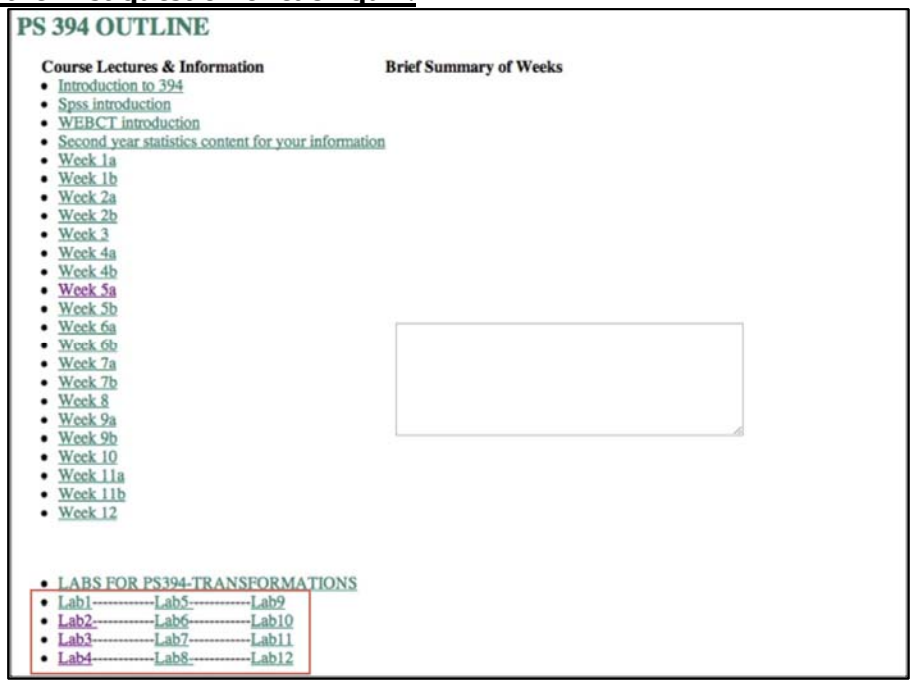
Textbook Chapters and SPSS Instructions – where to find them

LINK TITLE	CHAPTER OR SPSS?	CHAPTER or SPSS CONTENT
Week 1a	Chapter 1	Looking at Data
Week 1b	Chapter 3	Relationships
Week 2a	Chapter 6	Inference
Week 2b	Chapter 7	Inference for Distributions
Week 3	Chapter 2	Relationships Continued
Week 4a	Chapter 7	Linear Model with Normal Error
Week 4b	SPSS instructions	Linear Model with Normal Error
Week 5a	Chapter 8	Polynomial Models & Matrix Notation
Week 5b	SPSS instructions	Quadratic Linear Model
Week 6a	Chapter 5	The Question of Interaction
Week 6b	SPSS instructions	Dummy Variables
Week 7a	Chapter 9	Linear Model with Several Variables
Week 7b	SPSS instructions	Multiple Linear Regression
Week 8	Chapter 11	Comparing a Sequence of Models
Week 9a	Chapter 12	Variable Selection Procedures
Week 9b	Chapter __	Multicollinearity
Week 10	Chapter 10	Correlation
Week 11a	Chapter __	Power for professionals
Week 11b	Chapter __	Binary logistic regression
Week 12	Chapter __	Piecewise linear regression

D) Quiz Background Information

The best way to access the background information and data you need for each quiz is to click the links that are included in the first question of each quiz.

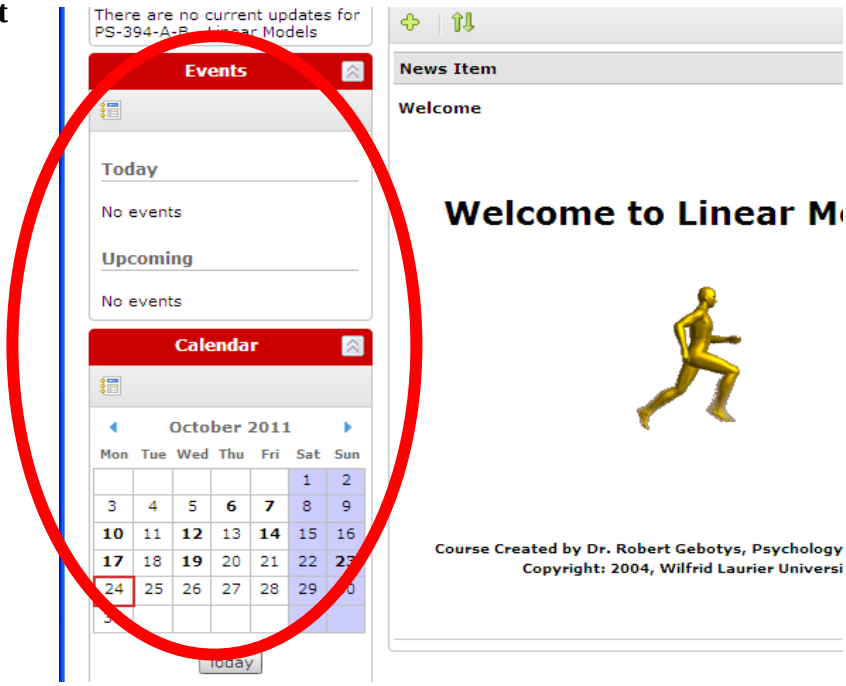
However, an alternative method to access the background information, you can click one of the links at the bottom of the course notes page.



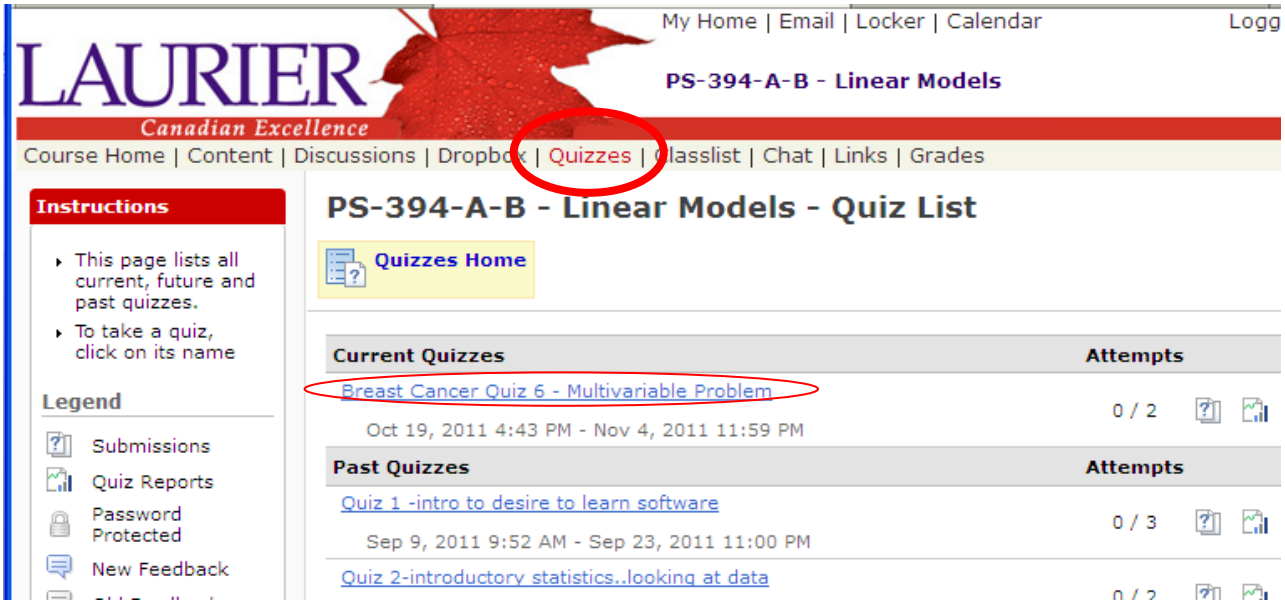
2. Completing MLS quizzes

F) Accessing Quizzes

Each Week you will have at least one quiz to complete. The dates these quizzes become available and due are listed in your events and calendar sections, the screen that is always visible on the course MLS page in the left hand section:



You can access the quizzes by clicking on them in this section, or through the 'Quizzes' tab, which will bring you to this page:

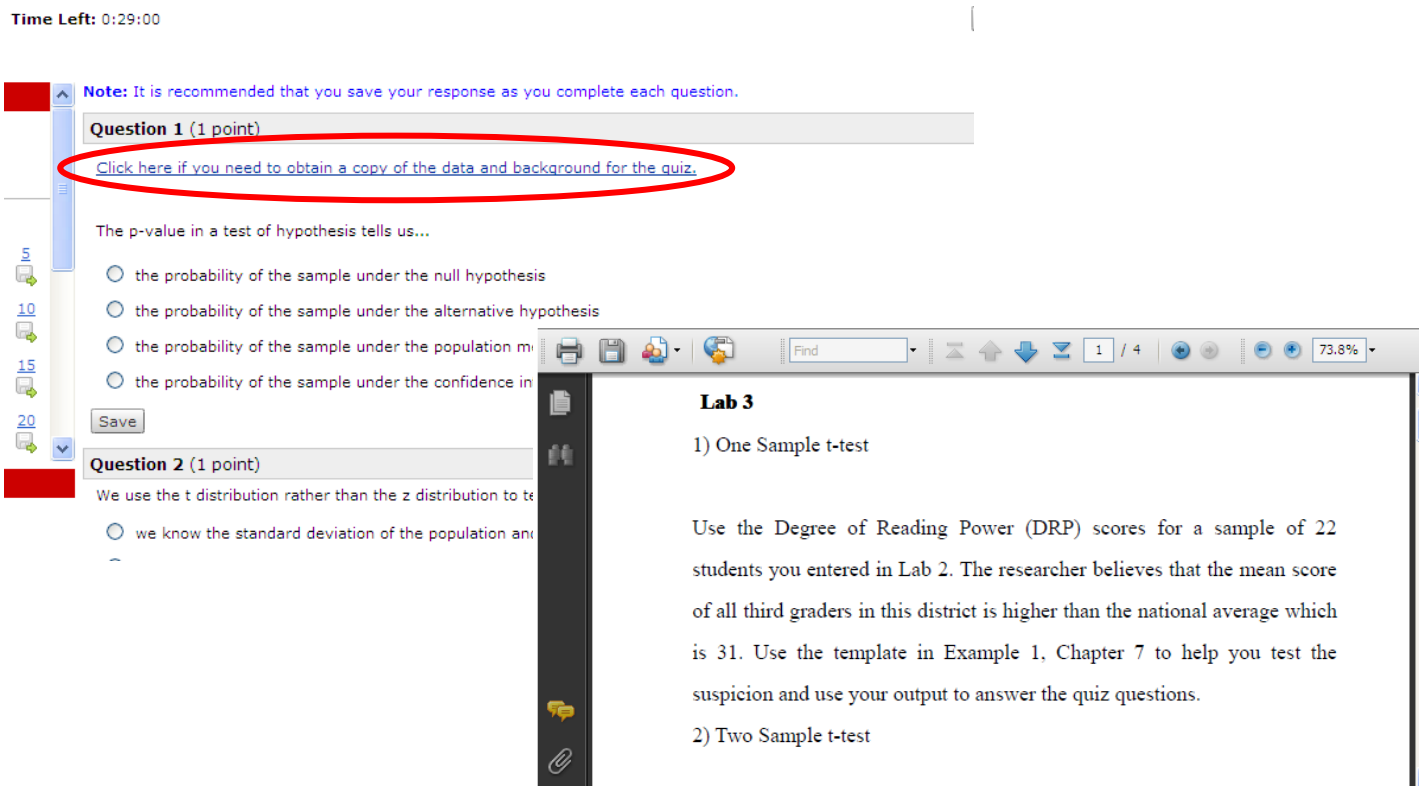


You can only access quizzes in the 'Current Quizzes' section, which have their respective start and due dates listed. You will be provided a minimum of 7 days to complete each quiz from its start date.

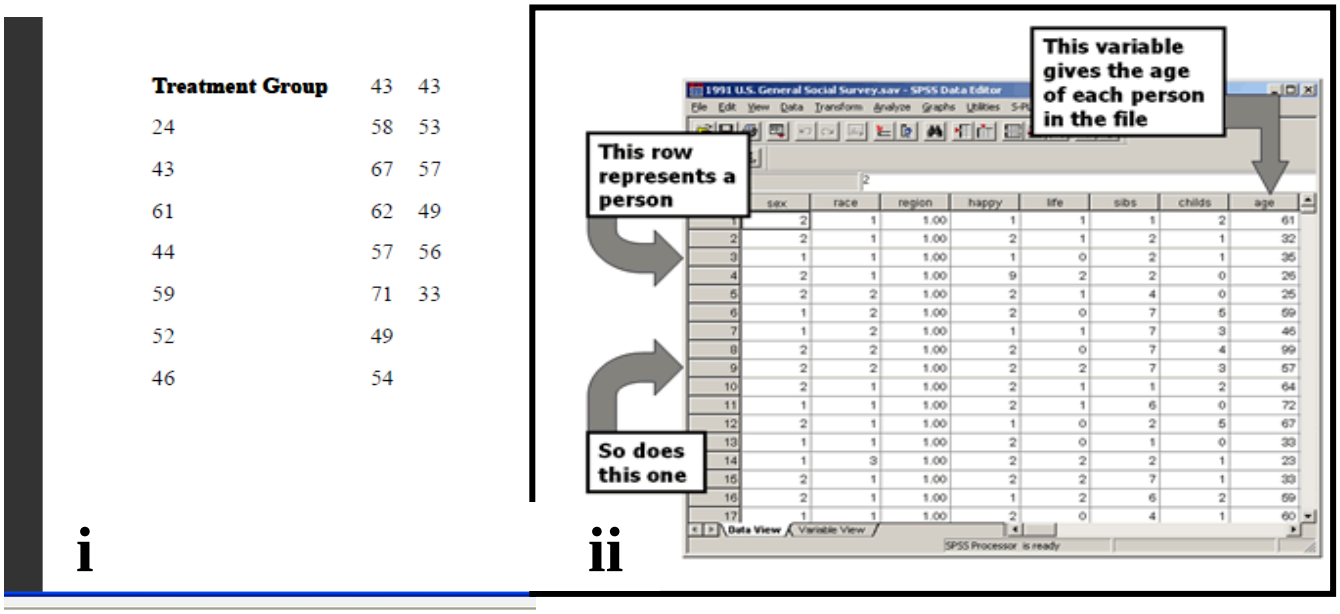
G) Obtaining Data

When starting a quiz, there will be a link provided inside with:

-the background information *[also available from the course webpage as described in section 'D']*



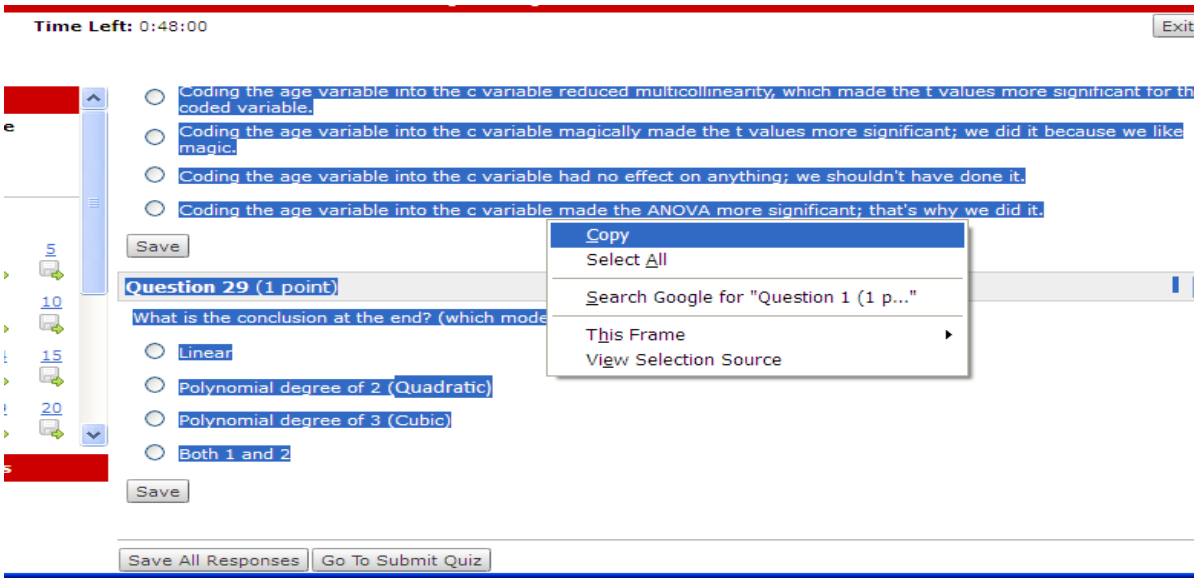
- And the data needed, either in .pdf format or as .sav SPSS file. Your TAs will help you with the appropriate SPSS analysis required to complete the quizzes (shown below i and ii respectively):



H) Using Your Attempts

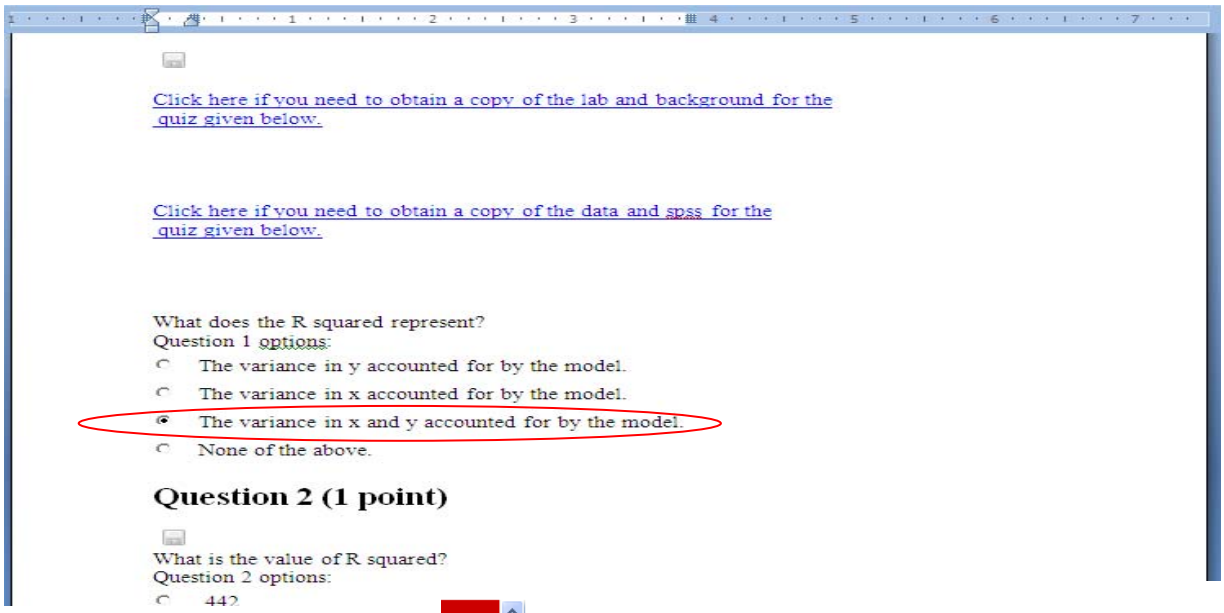
You have 2 attempts for each quiz, each with a maximum time limit (of 30 min). The first attempt should be used to obtain the data and background information, as well as to copy (or print) the

questions so you can work through the quiz at your own pace. One way to extract the quiz questions on your first attempt is to copy the questions into a word processor such as Open Office or Microsoft Word. Just open the quiz on your first attempt, right click the screen and hit "select all", then right click again and hit "copy".

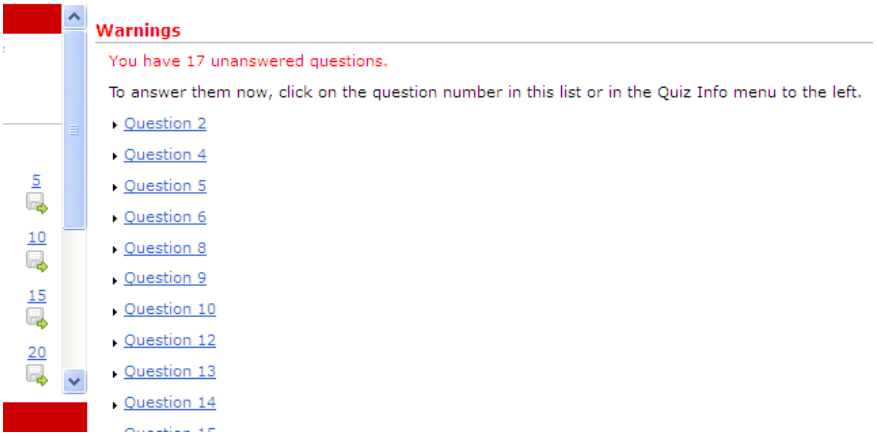


Next you can open a new document in MS Word, and simply hit Edit -> Paste, then make sure to save the word file somewhere you will be able to find it to work on it. Lastly, there will likely be one or more links at the start of the quiz, which will contain the background information or data required to complete it. Make sure you have all of these files downloaded, and your word file saved, then you may hit "Go to Submit Quiz" in order to end your first attempt.

After obtaining the questions and background information for the quiz, you can select responses for entering them in the second attempt. Alternatively, you could write down your answers as you work through the quiz during lab.

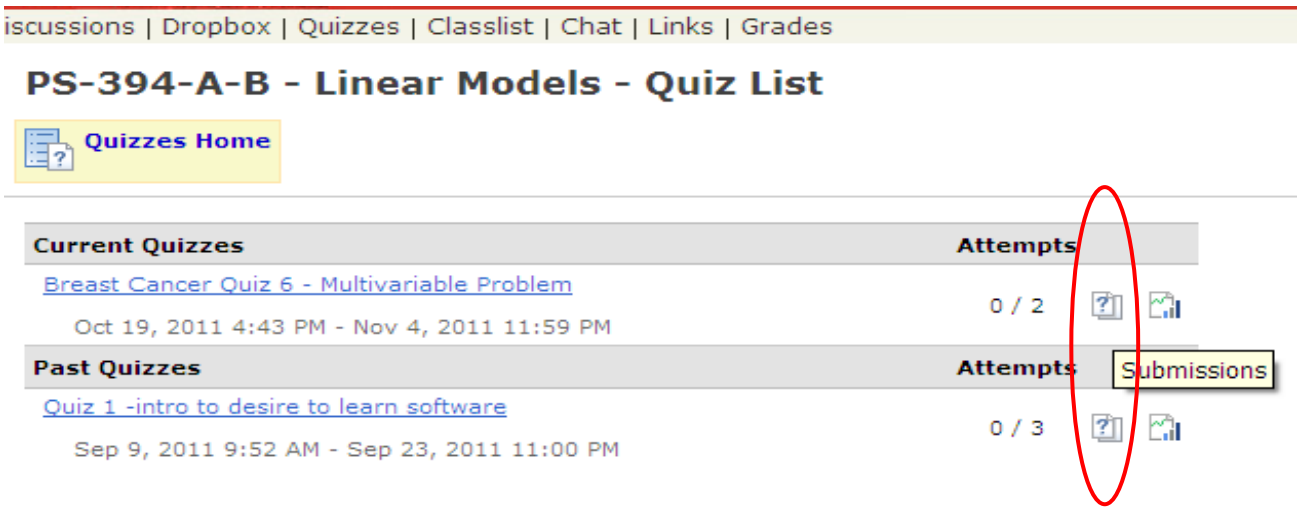


At the end of your quiz, there is a safe guard to ensure you have answered each question and saved your response before you submit it:

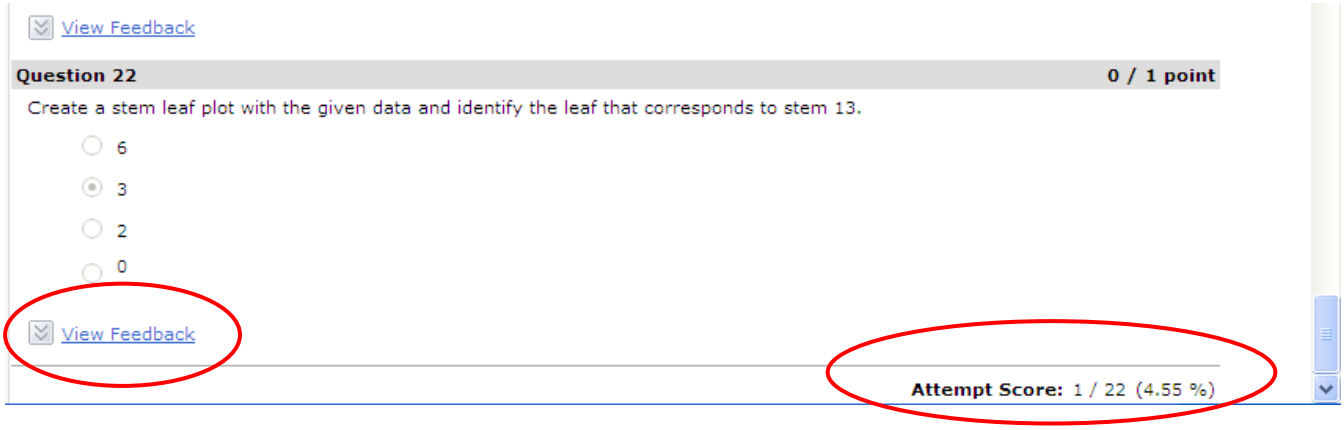


I) Viewing Your Submissions

After the quiz has been graded, your marks and the quiz answers will become available. Note that this will only occur after the date the quiz was due. To access your marks, click on the 'view submissions' option beside each quiz in the list.



You can also view the 'overall attempt score' (score and question feedback information only, no answers given) immediately following your second attempt by scrolling down after you hit 'submit':



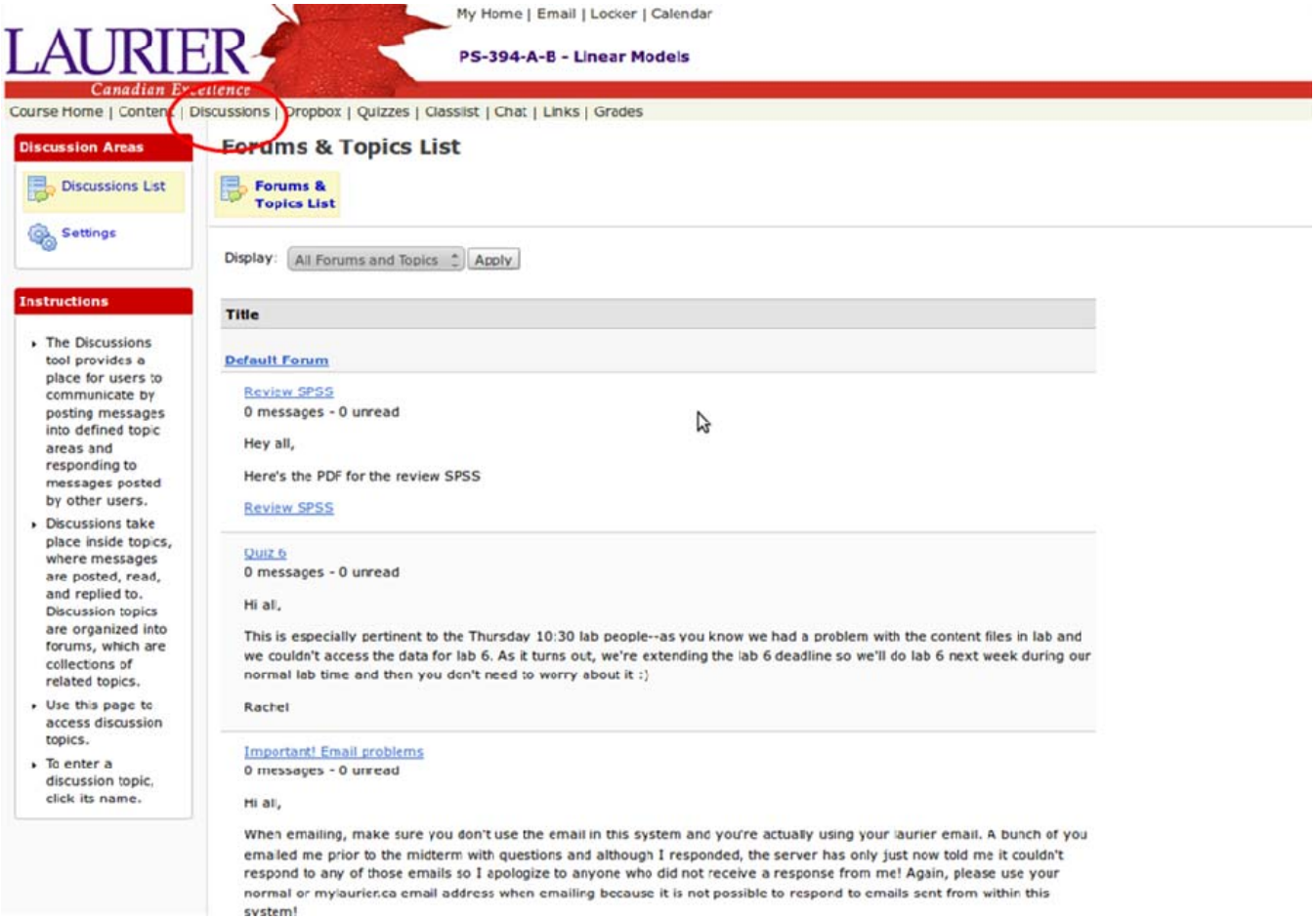
3. Finding Help

There are a number of place that you can look to for help with the course. The following section explains where and how to find help when you need it.

K) Using the Discussion Board

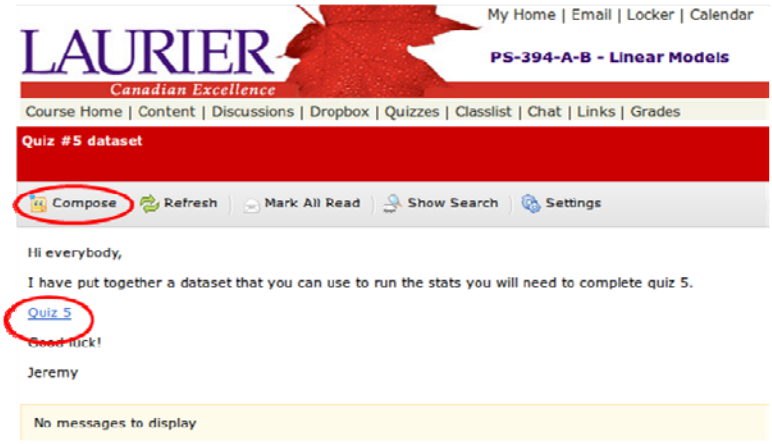
The 'Discussions' section of MLS is not only a useful place to find important course updates and helpful hints but also an excellent way to communicate with both your peers as well as instructors.

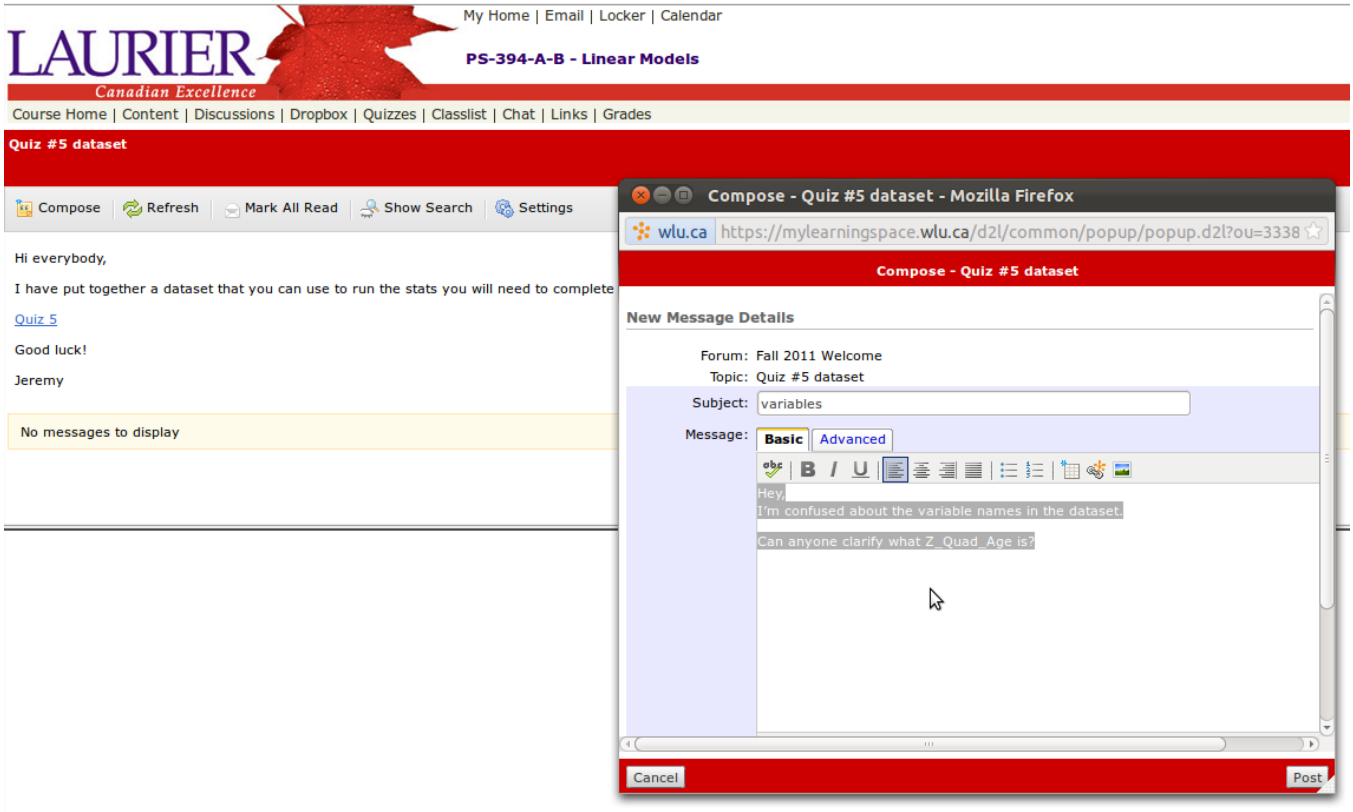
Discussion topics are arranged chronologically so you will have to scroll all the way down to find the most recent post. You can click on a post in order to open it.



This discussion post (right) contains an SPSS dataset (.sav file) that you can download by clicking on the link.

If you click on compose button you can post a reply. Both your classmates and instructors can see your post and also send you a reply. This way, you can get the help you need as soon as possible. (see below)



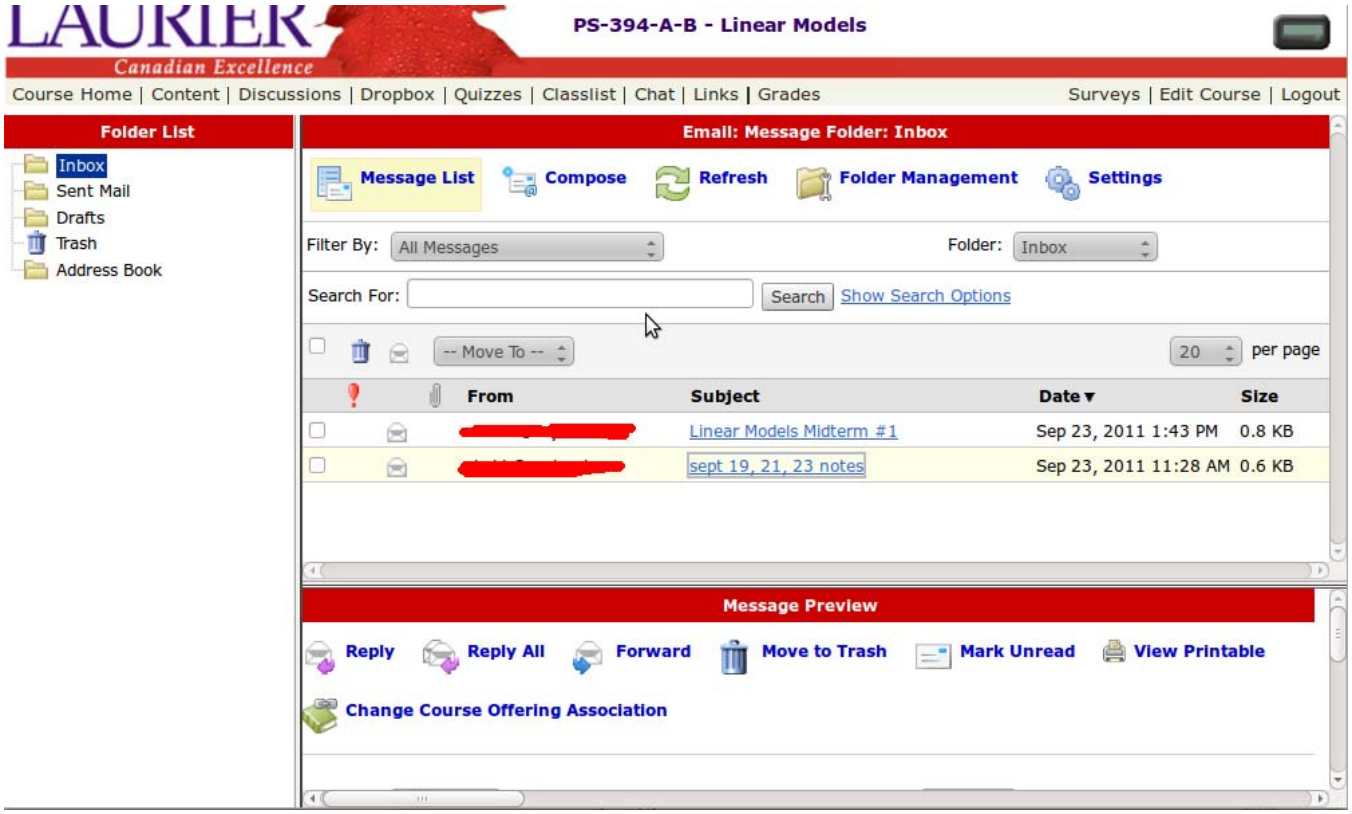


To reply to a post, hit compose button and a new window will open (see above). Simply type in your reply in the box labeled "Message" and hit send.

J) Using MLS Email

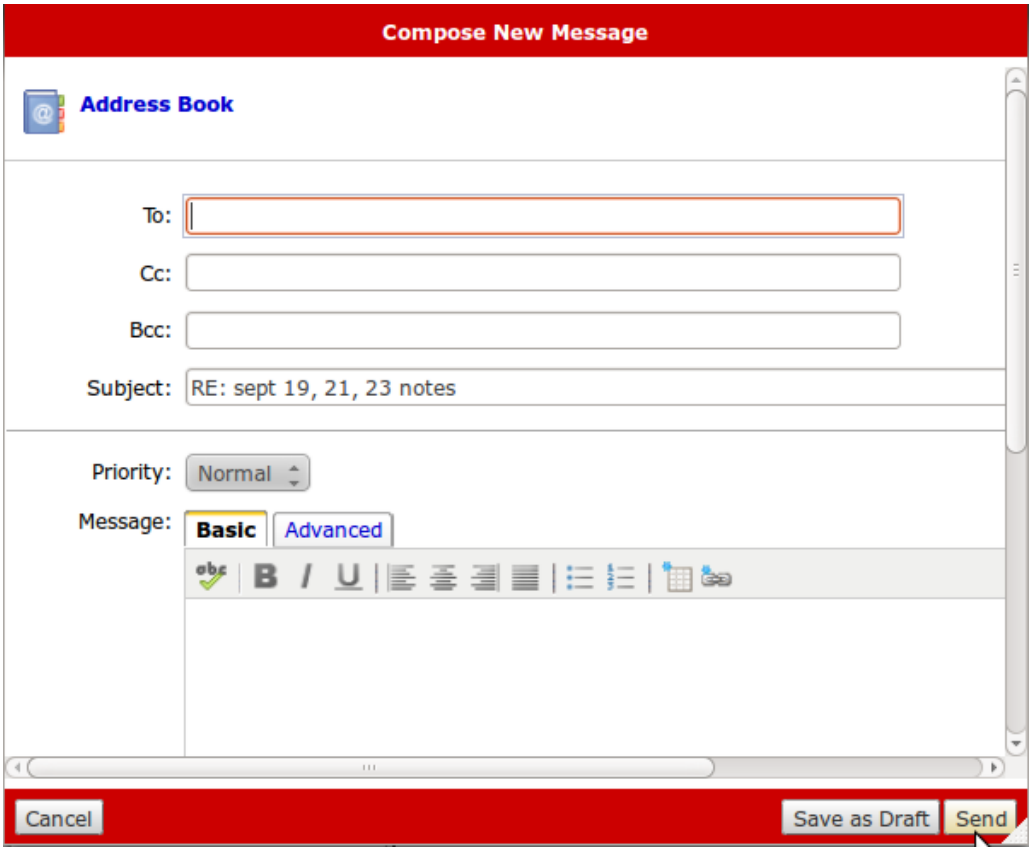
You can also contact your instructors by email, which may be preferable when discussing private matters. There is an *internal* MLS email client, which you can use to contact everyone or just select individuals. Internal, meaning that you will not be able to send messages to your TA or instructor's personal e-mail addresses. Speak to your TA or instructor about which form of communication (i.e. personal e-mail, or MLS e-mail) they prefer.

You will find the emails you received in your inbox. When you click on a message, it will be displayed directly below



Clicking the *compose* or *reply* buttons will open up a new window which will allow you to compose a new email or reply to existing one.

Just fill in the appropriate fields and hit send button in the window pictured below.



You can also reach your instructors through their @mylaurier.ca email and/or arrange to meet with them in person during office hours. Be sure to speak to your TA to find out what their preferred means of communication is in order to obtain the quickest responses to your queries.

Tip: If your TA provides you with their @mylaurier.ca email address, then this is their preferred method of communication, so use this before using MLS email!

***** Issues regarding absences and/or missed quizzes, midterm or final examination material must be dealt with through Dr. Gebotys, at bgebotys@wlu.ca**
Remember, keeping up to date with course material and getting help when needed will ensure you get *your* best mark possible in PS 394. ***