

**PSY 1010A Introduction to Statistics
Course Outline Fall 2007**

Lecturer:

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By appointment

By appointment

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Lectures:

Thursday 8:30 am – 10:15 am, ELB 307

Tutorials:

Monday 12:30 pm– 1:15 pm, ELB 307

Course Objectives:

In this course you will learn to understand the logic, purpose and techniques of statistical analyses, particularly those for psychology. We will emphasize active participation to facilitate the understanding of logic and attempt to reduce load of memory.

Course Requirements:

- | | |
|------------------------|--------------------|
| 1. Quiz 1 | 23% |
| 2. Quiz 2 | 23% |
| 3. Quiz 3 | 34% |
| 4. Homework | 20% |
| 5. Answering Questions | 5% (Extra credits) |

The purpose of the quizzes and homework is to ensure that you understand the logic and concepts of the statistical methods and know how to use them. You can freely browse book and notes in the tests so you can focus on understanding instead of memorizing. You will be required to complete MC and SA questions. **Homework must be handed in one week after it is handed out, by 5pm. It should be placed in the class mailbox. Please note that you**

MUST do the entire homework by yourself – you MUST NOT work with anyone else. In addition, Mobile phones must be switched off in class at all times.

Textbook:

Aron, A., Aron, E. N., & Coups, E. J. (2006). *Statistics for Psychology (4th ed)*. Upper Saddle River, NJ: Pearson Education.

Green, S. B., & Salkind, N. J. (2003). *Using SPSS for Windows and Macintosh: Analyzing and Understanding Data*. Upper Saddle River, NJ: Pearson Education. (For reference only)

Tutorial

The goals of the tutorials in this course are threefold. First, a brief review of the concepts, methods and skills relating to the contents learned from the lecture will be covered in beginning of each tutorial. Second, to facilitate your understanding of basic statistics, details for each statistic method (t-test, ANOVA etc) will be taught step by step in the tutorial. Finally, an instruction of SPSS for statistic analysis will be given. Also, we will have a group discussion of relevant questions or problems encountered in each homework or quiz.

Lectures and Tutorial Schedule:

Week	Lecture			Tutorial		HW
	Date	Topic	Chpt	Date	Topic	
1	Sep. 6 th	1. Basic concepts in statistics	1	Sep. 10 th	Introduction	
2	Sep. 13 th	2. Descriptive statistics	2	Sep. 17 th	Basics of SPSS	# 1
3	Sep. 20 th	3. Normal Distribution	3	Sep. 24 th	Normal Distribution	
4	Sep. 27 th	4. Hypothesis Testing I	4	Oct. 1 st	No tutorial	
5	Oct. 4 th	5. Hypothesis Testing II	5	Oct. 8 th	Hypothesis Testing	# 2
6	Oct. 11 th	6. Effect size, power	6	Oct. 15 th	Quiz 1	
7	Oct. 18 th	7. One-sample, paired t-test	7	Oct. 22 nd	Power Analysis	# 3
8	Oct. 25 th	8. two-sample t-test	8	Oct. 29 th	t-test	
9	Nov. 1 st	9. One-way ANOVA	9	Nov. 5 th	One-way ANOVA	# 4
10	Nov. 8 th	10. Correlation	11	Nov. 12 th	Quiz 2	
11	Nov. 15 th	11. Simple Regression	12	Nov. 19 th	Correlation	
12	Nov. 22 nd	12. Chi-square test	13	Nov. 26 th	Regression	# 5
13	Nov. 29 th	13. Review	--	Dec. 3 rd	Quiz 3	

Academic honesty and plagiarism

Information regarding the academic honesty and plagiarism policy in the University is located at <http://www.cuhk.edu.hk/policy/academichonesty/>. Some further advice is below.

2007-2008 Term 1

Guideline about plagiarism

Any assignment (i.e., project, essay, or paper) that shows evidence of plagiarism will be marked down severely. In simple terms, plagiarism is copying passages and/or ideas from other sources without referencing those sources. Moreover, when you report someone else's ideas/findings you must put it in your own words and not merely copy full sentences or parts of sentences from the source article. It is your responsibility as a scholar-in-training to cite the ideas and work of others correctly. Please visit the following websites for discussions of how to recognize and avoid plagiarism.

<http://ec.hku.hk/plagiarism/introduction.htm>

<http://www.indiana.edu/~wts/wts/plagiarism.html>

<http://www.hamilton.edu/academic/Resource/WC/AvoidingPlagiarism.html>

If you commit plagiarism in an assignment, and it is your first offence in the course, the penalty will range from a minimum of a single letter grade reduction in score on the assignment to a maximum of failure on the assignment. A second offence within the same course will result in a minimum penalty of a single letter grade reduction in the course grade to a maximum penalty of course failure. The specific penalty applied is up to the discretion of the professor. In all cases of plagiarism, the student's name will be recorded in a central database maintained by the general office. If a student is referred for plagiarism in more than one course, or more than one instance in the same course, the student's case will be forwarded to the university administration for follow-up action.

(To be signed by students at the beginning of the semester)

I promise that all assignments submitted to this course across the entire semester will be original except for source material explicitly acknowledged. I also acknowledge that I am aware of University policy and regulations on honesty in academic work, and of the disciplinary guidelines and procedures applicable to breaches of such policy and regulations as contained in the website

<http://www.cuhk.edu.hk/policy/academichonesty/>.

Signature

Date

Name

Student ID

PSY1010A
Course code

Introduction to Statistics
Course Title