



Course Syllabus

Name of Curriculum	Undergraduate Degree, Mahidol University International College
Course Code	ICGN103
Course Title	Essential Statistics
Number of Credits	4 (Lecture/Lab : 4-0)
Prerequisites	ICGN102 Essential Mathematics
Academic Year	Second trimester/ 2019 to 2020
Course Description	Statistical ideas and concepts; probability theory; discrete and continuous distributions; sampling; hypothesis testing; estimation; simple linear regression analysis.

Course Objective

1. Identify basic statistical methods related to making decisions
2. Deliver a logical solution to statistical problems that one could encounter in life science by extending on his/her statistical understanding of the problem
3. Judge efficiency of decision making processes
4. Execute statistical decisions with the awareness of real world situation

Tentative Course Outline

Lecture	Topics	Lecture (hours)	Lab
1	Chapter 1: Terminologies in statistics,	2	-
2-3	Chapter 2: Descriptive statistics, graphical method	4	-
4-5	Chapter 3: Descriptive statistics, numerical method	4	-
6-8	Chapter 4: Probability	6	-
9-11	Chapter 5: Discrete distribution	6	-
12	Review, Go over the project's topics	2	-
*	Midterm Exam.		
13-14	Chapter 6: Continuous distribution	4	-
15-16	Chapter 7: Sampling distribution	4	-
17-18	Chapter 8: Confidence intervals	4	-
19-20	Chapter 9: Hypothesis testing	6	-
21-23	Chapter 10: Simple regression analysis	4	-
24	Presentation on applications of Statistics in hotel management	2	-
*	Final Exam.		

Teaching method

1. Lecture
2. Assignments

Teaching media

Microsoft Office: Power Point and Excel

Measurement and Evaluation

Homework	10%
In-Class work	10%
Presentation	10%
Midterm Exam.	35%
Final Exam.	35%

Remark:

- Students MUST submit all assignments on time; otherwise the assignments will not be accepted.
- NO MAKE-UP exam, excepting only an emergency or accident case.

Course Evaluation

Grading Scale	Grade
90 - 100	A
85 - 89	B+
80 - 84	B
75 - 79	C+
70 - 74	C
65 - 69	D+
60 - 64	D
Below 60	F

References

(Main) J. Buglear. Stats means business: Statistics with Excel for business, hospitality and tourism. 2nd ed. Oxford. Elsevier; 2010.

(Supplement 1) C. H. Brase, C. P. Brase. Understanding basic statistics. 7th ed. Boston. Brooks Cole; 2016.

(Supplement 2) B. L. Bowerman, R. T. OConnell, E. S. Murphree, J. B. Orris. Essentials of Business Statistics. 5th ed. New York. McGraw-Hill Education; 2014.

(Supplement 3) R. Johnson, P. Kuby. Elementary Statistics. 11th ed. Duxbury Press; 2011.

Instructor:

Section 1

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Section 2

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Class Schedule

Section 1: A327 2 - 3:50pm Monday/Wednesday
Section 2: 1406 12 - 1:50pm Tuesday/Thursday