

## Syllabus

Fall Semester 2018

### 1. Class Information

Course	Basic Statistics		
Course #	GSQR020	Course Classification	Core Cultural Course
Department	National Statistics	Credit (hrs)	3 ( 3 )
Instructor	Professor Sungsoe Rheem	TA	
Contact Info.		Contact Info.	
Class Time	Periods 8, Tue. Period 6-7, Wed.	Class Location	9-234

### 2. Core Competencies

Frontier Spirit		Sharing and Collaboration		Pragmatic Practice		Creative Convergence		Global Leadership	
Challenging Spirit	Future Insights	Empathy	Social Engagement	Professionalism	Problem Solving	Innovation	Creativity	Global Mind	Global Communication
				●	●		●		◐

Very highly correlated: ●    Highly correlated: ◐

### 3. Teaching Methods

Class Activity	<input checked="" type="checkbox"/> Lecture	<input type="checkbox"/> Presentation	<input checked="" type="checkbox"/> Discussion	<input type="checkbox"/> Experiment	<input type="checkbox"/> Practice
	<input type="checkbox"/> Collaboration	<input type="checkbox"/> Private Teaching	<input type="checkbox"/> Collective Teaching	<input type="checkbox"/> Quiz	<input type="checkbox"/> Q & A
Attendance Check	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Unsupervised Exam	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

### 4. Evaluation

Quiz:	Midterm: ●	Final: ●	Attendance: ●	Total:
Evaluation Feedback	Yes <input checked="" type="checkbox"/> (Upon Request)	<input type="checkbox"/> No	Evaluation Feedback	Abs ●, Rel.

## 5. Study Plan

Class Description	This course deals with the basics of statistics, which is a science to draw information from data. Students will see how concepts are connected to form a basis for statistics, realizing that an academic discipline is a framework of concepts. This course is considered to help students develop scientific mind and think logically.
Correlation with core competences and departmental objectives	This course will provide students with pragmatic practice including problem solving and a basis for professionalism. Students will also see some creativity that was used in the construction of the framework and the making of the details for this course. In addition, through the effective use of English to express scientific knowledge, students will be able to enhance the ability for global communication.
Study Objectives	Through simple examples, students will understand the framework of statistics and the related details, learning a paradigm that all things that are created, including statistics, consists of two components that are the framework and the details.
Class Objectives	Students actively participate in class by speaking the statements in lecture notes after the professor. This will lead students to have positive attitude.
Prerequisite Subjects	None
Textbook & References	<u>Textbook:</u> Lecture notes written by Professor Sungue Rheem  <u>References:</u>
Homework	

**6. Weekly Course Schedule**

No	Date	Week	Topic	Text	Remark
1		1	Introduction to the Course		
2		2	Random Variable and its Probability Distribution		
3		3	Population and Samples		
4		4	Population Distribution, the Sample Distribution, and the Sampling Distribution		
5		5	Expectations of a Random Variable: The Mean and the Variance		
6		6	A Die Rolling Experiment with Interest in the Mean of a Multi-Value Variable		
7		7	A Die Rolling Experiment with Interest in the the Number of "Successes"		
8		8			Midterm Exam
9		9	Binomial Distribution		
10		10	Normal Distribution		
11		11	Normal Approximation: The Central Limit Theorem		
12		12	Confidence Intervals 1		
13		13	Confidence Intervals 2		
14		14	Hypothesis Testing 1		
15		15	Hypothesis Testing 2		
16		16			Final Exam

**7. Support for Disabled Students**

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## 8. Student Learning Ethics and Obligations

Students participating in the educational activities of our school have the following general obligations in all processes of taking courses (lecture attendance, creation and submission of assignments, examination, etc.):

- Learners actively participate in all learning with honesty and passionate attitudes based on the purpose of the university and the educational philosophy of our school.
- Learners are aware of their position as students receiving higher education and devote themselves to creative learning based on moral sensitivity.
- Learners must faithfully implement matters promised by faculty members and fellow students in connection with educational activities.
- Learners respect the character of teachers and other students and observe basic manners.

In the course of learning, plagiarism and the duplicate use of other class tasks, when it is found that it is acquired by dishonest behavior such as examination misconduct or other unreasonable method of obtaining unit, even if it is a unit already certified, will result in the cancellation of that unit. Also, you can undertake disciplinary actions such as suspension, withdrawal, and expulsion, taking into account the circumstances of the act.

The school operates the plagiarism inspection system (Blackboard) to promote the awareness of learning ethics and to promote creativity, and students must confirm whether they fall under plagiarism in advance when submitting tasks.