### Course Information

**Course Code:** STAT203  
**Course Name:** Statistics I  
**Course Type:** Lecture  
**Weekly Course Hours:** 3  
**Credits:** 3  
**ECTS:**  
**Weekly Time Schedule:** Wednesday 09:00-12:00

#### Prerequisite
- Course Lecturer: Prof. Dr. Hüseyin Oğuz
- Office Hours: Friday 15:00-17:00
- Phone: 2722
- E-mail: hoguz@eul.edu.tr
- Office/Room No: C1104
- Teaching Assistant(s): 
- E-mail: 

#### Prerequisite to

#### Course Objectives
- 1. Ability of graphical and numerical data analysis and verbal summaries of data
- 2. Having knowledge of basic probability computations and the role of probability in statistical inference
- 3. Ability of understanding fundamental concerns involved in proper data collection
- 4. Ability to analyse and interpret confidence intervals for means, proportions and variances

#### Learning Outcomes
- 1. Ability of graphical and numerical data analysis and verbal summaries of data
- 2. Having knowledge of basic probability computations and the role of probability in statistical inference
- 3. Ability of understanding fundamental concerns involved in proper data collection
- 4. Ability to analyse and interpret confidence intervals for means, proportions and variances

#### Textbooks and/or References

#### Evaluation Tools

<table>
<thead>
<tr>
<th>Evaluation Tool</th>
<th>Quantity</th>
<th>Date</th>
<th>Weight in Total (%)</th>
<th>Weight in Semester Evaluation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Exam</td>
<td>1</td>
<td>05-18 January 2015</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Semester Evaluation</td>
<td></td>
<td></td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Midterm(s)</td>
<td>1</td>
<td>17-23 November 2014</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Quiz(zes)</td>
<td>1</td>
<td>During lecture hours</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Project(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Homework(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Evaluation Tool

<table>
<thead>
<tr>
<th>Evaluation Tool</th>
<th>Quantity</th>
<th>Student Workload Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical Issues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midterm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quiz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atelier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Recommended ECTS Credit (Total Hours / 25):

<table>
<thead>
<tr>
<th>Evaluation Tool</th>
<th>Quantity</th>
<th>Student Workload Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Homework</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self Study</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Language of Instruction:

*** Lifelong Learning Programme (LLP) ***

**ECTS Course Name:** Business Administration  
**Course Code:** CL104  
**Course Type:** Lecture  
**Weekly Course Hours:** 3  
**Credits:** 3  
**ECTS:**  
**Weekly Time Schedule:** Wednesday 09:00-12:00

### Course Syllabus

#### Syllabus

**Date**  
- 29.10.2014
- 20.11.2014
- 27.11.2014
- 04.12.2014
- 18.12.2014
- 25.12.2014
- 01.01.2015
- 08.01.2015
- 15.01.2015
- 22.01.2015
- 29.01.2015
- 05.02.2015
- 12.02.2015
- 18.02.2015
- 25.02.2015
- 04.03.2015
- 11.03.2015
- 18.03.2015
- 25.03.2015

#### Topics

- Elements of Chance: Probability  
- Probability Rules, Bivariate Probabilities, Bayes' Theorem  
- Discrete Probability Distributions: Binomial Distribution  
- Continuous Probability Distributions: Normal Distribution, Exponential Distribution  
- Distributions of Sample Statistics: Sampling Distributions of Sample Means, Proportions and Variances  
- Confidence Interval Estimation for the Population Mean and Proportion (Large and Finite Populations)  
- Confidence Interval Estimation for the Population Variances, Sample-Size Determination  
- Measures of Variability, Weighted Mean and Measures of Relationships Between Variables  
- Using Numerical Measures to Describe Data  
- Jointly Distributed Discrete Random Variables: Covariance, Correlation  
- Distributions of Sample Statistics: Samplings Distributions of Sample Means, Proportions and Variances  
- Confidence Interval Estimation for the Population Variances, Sample-Size Determination

#### Reference

- Kvanli Alan H., Pavur Robert J., Keeling Kellie B.; Concise Managerial Statistics, South-Western Thomson Learning, 2006
- http://www.pearsonhighered.com/newbold