

**DEREE COLLEGE SYLLABUS FOR:  
SO 2260 INTRODUCTION TO STATISTICAL THINKING**

**2/0/2**

(Same as PS 2260 Introduction to Statistical Thinking)  
(Previously PS 2260 Psychologists As Researchers - L4)  
(Updated: Spring 2022)

**LEVEL 4  
UK CREDITS: 10**

<b>PREREQUISITES:</b>	PS 1000 Introduction to Psychology as a Natural Science – L4 PS 1001 Introduction to Psychology as a Social Science – L4 <b>OR</b> SO 1000 Introduction to Sociology-L4 SO 1001 Sociology of Modern Life-L4						
<b>CATALOG DESCRIPTION:</b>	Introduction to variables, scales of measurement, descriptive statistics, basic inferential tests and understanding the statistical output. Overview of scientific writing skills and ethical research principles.						
<b>RATIONALE:</b>	The module prepares students for advanced modules by helping them build skills in basic statistical analysis, communication of ideas, as well as an understanding of the research ethics dimension. Students will be equipped with knowledge of statistical information, and practical skills to make informed selection of statistical tests and conduct their own research in advanced modules.						
<b>LEARNING OUTCOMES:</b>	Upon completion of this module, the student should be able to: <ol style="list-style-type: none"> <li>1. Demonstrate understanding of variables, their scales of measurement, descriptive statistics and preliminary data analysis.</li> <li>2. Demonstrate understanding of the selection and reporting of simple analyses of data.</li> <li>3. Demonstrate knowledge of APA style in terms of conventions and scientific writing.</li> <li>4. Demonstrate understanding of research ethical guidelines.</li> </ol>						
<b>METHOD OF TEACHING AND LEARNING:</b>	In line with the teaching and learning strategy of the college, the following tools are used: <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ In-class exercises</li> <li>▪ Office hours</li> <li>▪ Use of Blackboard site</li> </ul>						
<b>ASSESSMENT:</b>	<table border="1" style="width: 100%;"> <tr> <td colspan="2"><b>Summative:</b></td> </tr> <tr> <td><b>1st assessment: examination</b> (practical exercises, multiple choice questions)</td> <td style="text-align: center;"><b>40%</b></td> </tr> <tr> <td><b>Final assessment: examination</b> (practical exercises, problem solving scenarios)</td> <td style="text-align: center;"><b>60%</b></td> </tr> </table>	<b>Summative:</b>		<b>1st assessment: examination</b> (practical exercises, multiple choice questions)	<b>40%</b>	<b>Final assessment: examination</b> (practical exercises, problem solving scenarios)	<b>60%</b>
<b>Summative:</b>							
<b>1st assessment: examination</b> (practical exercises, multiple choice questions)	<b>40%</b>						
<b>Final assessment: examination</b> (practical exercises, problem solving scenarios)	<b>60%</b>						

	<p><b>Formative:</b></p> <table border="1"> <tr> <td>In-class activities and exercises.</td> <td>0%</td> </tr> </table> <p>The 1<sup>st</sup> assessment tests Learning Outcomes 1, 4. The final examination tests Learning Outcomes 1,2,3,4.</p> <p>The final grade for this module will be determined by averaging all summative (major) assessment grades, based on predetermined weights for each assessment. If students pass the comprehensive assessment that tests all Learning Outcomes for this module and the average grade for the module is above 40, students are not required to resit any failed assessments.</p>	In-class activities and exercises.	0%
In-class activities and exercises.	0%		
<b>INDICATIVE READING:</b>	<p><b>REQUIRED READING:</b> Field A. (latest edition). <i>Discovering statistics with SPSS.</i>: Sage Publications American Psychological Association (latest edition). <i>Publication manual of the American Psychological Association.</i> Washington, DC: Author.</p> <p><b>RECOMMENDED READING:</b> Pallant, J. (latest edition). <i>SPSS Survival Manual.</i> McGraw Hill</p>		
<b>RECOMMENDED MATERIAL</b>	<p>The Psychologist British Journal of Psychology American Psychologist Psychological Science Psychological Bulletin</p> <p>Social Science Research Sociological Methodology (ASA) Sociology (BSA) Sociological Research Online</p>		
<b>COMMUNICATION REQUIREMENTS:</b>	Academic use of English, both oral and written. APA style.		
<b>SOFTWARE REQUIREMENTS:</b>	Microsoft Office: Word, Excel, PowerPoint		
<b>WWW RESOURCES:</b>	<p>American Psychological Association <a href="http://www.apa.org">www.apa.org</a> American Sociological Association <a href="https://www.asanet.org/">https://www.asanet.org/</a> British Psychological Society <a href="http://www.bps.org.uk">www.bps.org.uk</a> APA style <a href="https://apastyle.apa.org/">https://apastyle.apa.org/</a> APA code of ethics <a href="https://www.apa.org/ethics/code">https://www.apa.org/ethics/code</a> BPS code of ethics and conduct <a href="https://www.bps.org.uk/news-and-policy/bps-code-ethics-and-conduct">https://www.bps.org.uk/news-and-policy/bps-code-ethics-and-conduct</a></p>		

**INDICATIVE CONTENT:**

1. Variables, operational definitions and scales of measurement
2. Descriptive statistics
3. Distribution of data and preliminary data analysis
4. Chi square
5. Correlation Analyses
6. APA style (manuscript structure, mechanics of style, displaying results, citations, and references)
7. Research ethics (e.g., informed consent, anonymity / confidentiality, debriefing, etc.)