



SYLLABUS

University Unit: Center for Biological and Health Sciences		
Graduate Program: Developmental Disorders		
Degree: <input checked="" type="checkbox"/> Master degree <input type="checkbox"/> Professional Master degree <input checked="" type="checkbox"/> Doctoral degree		
Subject: Fundamentals of Applied Biostatistics		
Professors: Ana Alexandra Caldas Osório Cristiane Silvestre de Paula		
Observation: The discipline presents different intervention strategies in school context under a neuropsychological and a behavioral approach. Specific techniques are discussed for different conditions related to neurodevelopmental disorders. The programmatic content includes interventions for specific learning disorders, intellectual disability, attention deficit hyperactivity disorder, autism spectrum disorder, among others.		
Workload: 48 h/a	Credits: 04	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Optative <input type="checkbox"/> Elective
Syllabus: To study the resources and scope of the IBM SPSS® statistical package for quantitative studies in health, psychology and education. To apply statistical models, derived from the basic conceptual pillars of biostatistics, to research questions in the area of biological and health sciences. Articulation between course content and students' projects. To apply statistical analysis to quantitative studies, in order to organize, describe and make inferences about the data.		
Program Content: During the 12 lessons, basic concepts will be discussed within a practical approach. Course content: (1) Defining different types of variables; (2) Creating a database in IBM SPSS®; (3) Presenting the data (tables, graphs, etc.); (4) Concepts related to descriptive analysis (frequencies, mean, median, etc.); (5) Descriptive statistics (for nominal, ordinal and scale variables), (6) Inferential statistics (correlations and difference tests), (7) Analysis of effect sizes.		
Evaluation Criteria Evaluation: According to the General Regulation of <i>Stricto Sensu</i> Post-Graduation, Art. 98: A - excellent: corresponds to scores in the interval between 9 and 10; B - good: corresponds to scores in the interval between 8 and 8.9; C - regular: corresponds to scores in the interval between 7 and 7.9; R - reprovado: corresponds to scores in the interval between 0 and 6.9.		



UNIVERSIDADE PRESBITERIANA MACKENZIE

Pró-Reitoria de Pesquisa e Pós-Graduação
Coordenadoria Geral de Pós-Graduação *Stricto Sensu*



References:

- Dancey, C. P., & Reidy, J. (2013). Estatística sem matemática para psicologia – usando SPSS para Windows. Porto Alegre: Artmed.
- Field, A. (2013). Descobrendo a Estatística usando o SPSS. Porto alegre: Artmed.
- Martins, C. (2012). Manual de Análise de Dados com Recurso ao IBM SPSS: Saber decidir, fazer, interpretar e redigir. Braga: Psiquilíbrios.