

**DEREE COLLEGE SYLLABUS FOR:
PS 4965 TOPICS IN NEUROPSYCHOLOGY**

3/0/3

(PS 4965 Hot Topics In Human Neuropsychology - L6)
(Updated Spring 2022)

**LEVEL 6
UK CREDITS: 15**

PREREQUISITES:

PS 1000 Psychology as a Natural Science – I 4
PS 1001 Psychology as a Social Science – L 4
PS 2207 Infancy and Preschool Years - L4
PS 2236 Human Learning & Memory – L4
PS 2260 Introduction to Statistical Thinking - L4
PS 2347 Analysis of Quantitative Data – L4
PS 3532 Testing and Assessment – L5
PS 3630 Biological Psychology – L5
BI 1000 Introduction to Biology I – L4

CATALOG DESCRIPTION:

Focus on patients with brain damage due to brain lesions or neurodegenerative/neurodevelopmental processes. Imaging methods in the the study of brain function. Critical evaluation of neuropsychological models derived from patient data.

RATIONALE:

The module introduces students to one of the fastest growing fields in psychology. It emphasizes the role of research in elucidating brain-behavior relationships as well as exposes students to the applied aspects, including neuropsychological assessments.

LEARNING OUTCOMES:

Upon completion of this module, the student should be able to:

1. Identify and describe the neuroanatomical correlates of cognitive and behavioral functions as well as mechanisms related to neuroplasticity.
2. Critically evaluate the neuropsychological profile of various clinical disorders.
3. Discuss the role of neuropsychological assessment in clinical diagnosis with reference to their utility and diagnostic strength.
4. Discuss cross cultural variations that may impact the practice of neuropsychological assessment and diagnosis.

METHOD OF TEACHING AND LEARNING:

In line with the teaching and learning strategy of the college, the following tools are used:

- Classes consist mainly of critical class discussions of assigned readings.
- Office hours
- Use of Blackboard site

ASSESSMENT:

Summative:	
1st assessment: Clinical Case Report A “reaction” report to a clinical case, relevant to a neurocognitive domain	40%
Final assessment: Critical Review Paper review of the scientific literature which	60%

	<table border="1" data-bbox="561 113 1352 180"> <tr> <td data-bbox="561 113 1162 180">informs the current knowledge of the chosen subject area</td> <td data-bbox="1162 113 1352 180"></td> </tr> </table> <p data-bbox="561 218 711 247">Formative:</p> <table border="1" data-bbox="561 247 1352 315"> <tr> <td data-bbox="561 247 1162 315">In-class discussion activities: active class engagement during the weekly meetings</td> <td data-bbox="1162 247 1352 315">0%</td> </tr> </table> <p data-bbox="561 386 1276 453">The 1st assessment tests Learning Outcomes 1, 2 ,3. The final assessment tests Learning Outcomes 1,2,3,4.</p> <p data-bbox="561 487 1416 684">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>	informs the current knowledge of the chosen subject area		In-class discussion activities: active class engagement during the weekly meetings	0%
informs the current knowledge of the chosen subject area					
In-class discussion activities: active class engagement during the weekly meetings	0%				
<p data-bbox="94 751 415 781">INDICATIVE READING:</p>	<p data-bbox="561 751 867 781">REQUIRED READING:</p> <p data-bbox="561 823 1312 890">Kolb, B. & Whishaw, I.Q. (2015). <i>Fundamentals of Human Neuropsychology</i>. NY, NY: Worth Publishers.</p> <p data-bbox="561 924 948 953">RECOMMENDED READING:</p> <p data-bbox="561 991 1318 1058">Feinberg T.E Farah M.J (2003). <i>Behavioral Neurology and Neuropsychology</i>, UK: McGraw Hill.</p> <p data-bbox="561 1092 1399 1184">Lezak, M. D., Howieson, D. B, & Loring, D.W. (2012). <i>Neuropsychological Assessment</i> (4th ed.). NY: Oxford University Press.</p> <p data-bbox="561 1218 1347 1327">Louis Fernandez, A., & Abe, J. (2017). Bias in cross-cultural neuropsychological testing: problems and possible solutions. <i>Culture and Brain</i>; 6:1–35.</p> <p data-bbox="561 1360 1367 1428">Morgan, J.E. & Ricker, J.E. (2008). <i>Textbook of Clinical Neuropsychology</i>. NY, NY: Taylor and Francis Publishers, Inc.</p> <p data-bbox="561 1461 1409 1554">Ogden, J. A. (2005). <i>Fractured Minds: A Case-Study Approach to Clinical Neuropsychology</i> (2nd Ed.). NY, NY: Oxford University Press.</p> <p data-bbox="561 1587 1393 1696">Pedraza O. (2019). <i>Clinical cultural Neuroscience: an integrative approach to cross cultural neuropsychology</i>. NY, NY: Oxford University Press.</p> <p data-bbox="561 1730 1416 1831">Strauss, E., Sherman, E.M.S. & Spreen, O. (2006). <i>A Compendium of Neuropsychological Tests: Administration, Norms and Commentary</i> (3rd Ed.). NY, NY: Oxford University Press.</p> <p data-bbox="561 1864 1396 1932">Strub, R.L. & Black F.W. (2000). <i>The Mental Status Examination in Neurology</i>. Philadelphia, PN: F.A Davis Company.</p>				

<p>INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)</p>	<p>REQUIRED MATERIAL: N/A</p> <p>RECOMMENDED MATERIAL: Clinical and Experimental Neuropsychology Journal of Neurology Neurology Neuropsychologia Neuropsychology The Clinical Neuropsychologist Journal of Alzheimer Disease Archives of Clinical Neuropsychology Frontiers in Aging Neuroscience</p>
<p>COMMUNICATION REQUIREMENTS:</p>	<p>Individual project submitted in Word Academic use of English, both oral and written. APA style</p>
<p>SOFTWARE REQUIREMENTS:</p>	<p>Blackboard, MS Office, search engines</p>
<p>WWW RESOURCES:</p>	<p>www.redreef.com/brainiac.html www.redreef.com/brainiac.htmllo.edu/~pmccaff/syllabi/SPPA336 www.csuchico.edu/~pmccaff/syllabi/SPPA336/</p>
<p>INDICATIVE CONTENT:</p>	<ol style="list-style-type: none"> 1. Brain-Mind relationship 2. Neuroanatomy for Neuropsychologists 3. The Neuropsychological Assessment 4. Neuroanatomical correlates of cognitive functions 5. Neuropsychology of Schizophrenia & Mood Disorders 6. Neuropsychology of Neurodegenerative Disorders 7. Neuropsychology of Neurodevelopmental Disorders