City University of Hong Kong

Information on a Course
offered by Department of Applied Social Sciences
with effect from Semester A in 2014/2015

Part I

Course Title: Neuropsychology
Course Code: SS3720
Course Duration: One semester
No. of Credit Units: 3
Level: B3
Medium of Instruction: English
Medium of Assessment: English
Prerequisites: (Course Code and Title): SS2023 Basic Psychology I or its equivalent; and SS3711 Biological Psychology
Precursors: (Course Code and Title): Nil
Equivalent Courses: (Course Code and Title): SS4711 Neuropsychology
Exclusive Courses: (Course Code and Title): Nil

Part II

1. Course Aims

This course aims to equip students with the knowledge of research methods and principles of human neuropsychology with an emphasis on the clinical foundation of the subject. Upon completion of the course, students are expected to (1) have a general knowledge about the impact of the brain’s structural or cognitive integrity on thoughts and behaviors, and (2) apply neuropsychological methods and thinking to address issues in real life and other areas of psychology.
2. **Course Intended Learning Outcomes (CILOs)**

Upon successful completion of this course, students should be able to:

<table>
<thead>
<tr>
<th>No.</th>
<th>CILOs</th>
<th>Weighting (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Describe major structures of the brain from a neuroanatomical perspective;</td>
<td>20%</td>
</tr>
<tr>
<td>2.</td>
<td>Understand methods of investigating the brain and principles of neuropsychological assessment;</td>
<td>20%</td>
</tr>
<tr>
<td>3.</td>
<td>Analyze how different functional systems of the brain produce behaviors and the effects of brain damage in humans; and</td>
<td>30%</td>
</tr>
<tr>
<td>4.</td>
<td>Create and test hypotheses by the application of theories and methods in neuropsychology.</td>
<td>30%</td>
</tr>
</tbody>
</table>

3. **Teaching and Learning Activities (TLAs)**

*(Indicative of likely activities and tasks designed to facilitate students’ achievement of the CILOs. Final details will be provided to students in their first week of attendance in this course)*

<table>
<thead>
<tr>
<th>CILO No.</th>
<th>TLA1</th>
<th>TLA2</th>
<th>TLA3</th>
<th>TLA4</th>
<th>Hours / course (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CILO 1</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CILO 2</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>CILO 3</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>CILO 4</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

Describe the TLAs:

**TLA1: Lectures:**
Major principles and research methods in human neuropsychology are described and explained, with an emphasis on (1) the relationship between structure and function, (2) critical evaluation of research findings, and (3) the process whereby theories and methods are integratively applied to generate new findings in neuropsychology.

**TLA2: Class Activities/Laboratories:**
Students are required to demonstrate their ability to analyze concepts and materials covered in lectures by studying and discussing hypothetical cases in small groups.

**TLA3: Group Project**
Students are required to use a cognitive test to collect data to test hypotheses relevant to human neuropsychology in small groups. They are also required to analyze the data and write up the findings in a report. This assignment allows students to develop skills for (1) cognitive testing relevant to neuropsychological assessment, (2) applying theories/concepts learned in class to write up the report, and (3) evidence-based reasoning. It provides an opportunity of self-discovery of knowledge.

**TLA4: Group Presentation**
Students are required to lead and present findings of their group projects and share what they have learned with the class. This serves to stimulate critical thinking as well as interest in the subject.
4. Assessment Tasks/Activities
(Indicative of likely activities and tasks designed to assess how well the students achieve the CILOs. Final details will be provided to students in their first week of attendance in this course)

<table>
<thead>
<tr>
<th>CILO No.</th>
<th>Type of Assessment Tasks/Activities</th>
<th>Weighting (if applicable)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CILO 1-4</td>
<td>AT1: Exam (2 hrs)</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>CILO 2-4</td>
<td>AT2: Project Report</td>
<td>35%</td>
<td></td>
</tr>
<tr>
<td>CILO 3-4</td>
<td>AT3: Tutorial Presentation</td>
<td>15%</td>
<td></td>
</tr>
</tbody>
</table>

Further description of ATs:

**AT1: Examination (50%)**
A 2-hour examination is designed to assess the students’ ability to understand, apply and evaluate theories and principles in human neuropsychology. This will consist of both multiple-choice and short-answer questions.

**AT2: Project Report (35%)**
This is for evaluating the ability to (1) collect and analyze data using a cognitive test relevant to neuropsychological assessment, (2) generate testable hypotheses, and (3) apply theories/concepts learned in class to write up a report. Students work in small groups of 5 to collect and analyze data, and submit a group report of about 1500 words in length.

**AT3: Tutorial Presentation (15%)**
This assignment is designed to assess students’ competence in critical evaluation of methods and evidence of neuropsychological research. Students are required to present findings of their term project in a small group to the class.

5. Grading of Student Achievement:
Refer to Grading of Courses in the Academic Regulations.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Performance standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>Excellent understanding of neuroanatomy and methods in human neuropsychology; excellent grasp of the behavioral consequences of brain damage; superior capacity for analyzing the brain-behavior relationship and evaluate research findings; strong evidence of being able to generate testable hypotheses. Critical evaluation of research findings.</td>
</tr>
<tr>
<td>A</td>
<td>Reasonable understanding of neuroanatomy and methods in human neuropsychology; good capacity for analyzing the brain-behavior relationship.</td>
</tr>
<tr>
<td>A-</td>
<td>Adequate familiarity with the subject matter; evidence of capacity for analyzing the brain-behavior relationship and behavioral consequences of brain damage.</td>
</tr>
<tr>
<td>B+</td>
<td>Adequate familiarity with the subject matter; evidence of capacity for analyzing the brain-behavior relationship and behavioral consequences of brain damage.</td>
</tr>
<tr>
<td>B</td>
<td>Minimal familiarity with the subject matter; minimal capacity for analyzing the brain-behavior relationship and behavioral consequences of brain damage.</td>
</tr>
<tr>
<td>B-</td>
<td>Little evidence of familiarity with the subject matter, weakness in analyzing the brain-behavior relationship and behavioral consequences of brain damage.</td>
</tr>
</tbody>
</table>
Part III

1. Keyword Syllabus

Brain structure, neuroanatomy, methodologies, attention, memory, language, executive function, emotion, brain damage, neuropsychological assessment, neural development, and the mind-brain problem.

2. Recommended Reading

Text(s)
Textbook:


Supplementary readings:


Online Resources

http://www.brainsource.com/neuropsy.htm