



CHRISTIAN HERITAGE COLLEGE

HB343

NEUROSCIENCE AND HUMAN BEHAVIOUR

This sample unit outline is provided by CHC for prospective and current students to assist with unit selection.

Elements of this outline which may change with subsequent offerings of the unit include Content, Required Texts, Recommended Readings and details of the Assessment Tasks.

Students who are currently enrolled in this unit should obtain the outline for the relevant semester from the unit lecturer.

Unit code	HB343
Unit name	Neuroscience and Human Behaviour
Associated higher education awards	Bachelor of Applied Social Science
Duration	One semester
Level	Advanced
Core/Elective	Elective Required for Human Behaviour specialisation
Weighting	Unit credit points: 10 Course credit points: 240
Student workload	<p><i>Face-to-face on site</i></p> <p>Contact hours 39 hours Reading, study, and preparation 59 hours Assignment preparation 52 hours TOTAL 150 hours</p> <p><i>External</i></p> <p>Engagement with study materials 90 hours Assignment preparation 60 hours TOTAL 150 hours</p> <p>Students requiring additional English language support are expected to undertake an additional one hour per week.</p>
Delivery mode	Face-to-face on site External
Prerequisites/ Corequisites/ Restrictions	<i>Prerequisites</i> 50 credit points of Social Sciences units, including SO112 Introduction to Human Behaviour
Rationale	<p>Recent scientific and technological advances have resulted in a rapid increase in knowledge concerning the neurobiological basis of a wide range of human behaviours and experiences. These findings have significant implications for applied social sciences practitioners seeking to understand and effectively respond to clients exhibiting a wide range of both typical and atypical behaviours.</p> <p>This unit will introduce students to the present state of knowledge in the field of cognitive and behavioural neuroscience, including research methods, major findings, current controversies, and Christian worldview implications. Particular attention will be given to how applied social sciences professionals can apply these understandings in order to enhance their practice in a wide range of people-helping fields.</p>
Prescribed text(s)	Pinel, J. (2013). <i>Biopsychology</i> (9th ed.). Boston, MA: Pearson.

<p>Recommended readings</p>	<p>Books</p> <p>Heilman, K., & Valenstein, E. (Eds.). (2011). <i>Clinical neuropsychology</i> (5th ed.). UK: Oxford University.</p> <p>Joseph, R. (2011). <i>Neuroscience: Neuropsychology, neuropsychiatry, brain and mind</i> (4th ed.). USA: Cosmology Science.</p> <p>Marcotte, T., & Grant, I. (Eds.). (2010). <i>Neuropsychology of everyday functioning</i>. New York, NY: Guilford Press.</p> <p>Journals</p> <p><i>Journal of the international Neuropsychological Association</i></p> <p><i>Journal of Neuropsychology</i></p> <p><i>Journal of Psychology and Theology</i></p> <p>In addition to the resources above, students should have access to a Bible, preferably a modern translation such as The Holy Bible: The New International Version 2011 (NIV 2011) or The Holy Bible: New King James Version (NKJV).</p> <p>These and other translations may be accessed free on-line at http://www.biblegateway.com. The Bible app from LifeChurch.tv is also available free for smart phones and tablet devices.</p>
<p>Specialist resource requirements</p>	<p>Nil</p>
<p>Content</p>	<ol style="list-style-type: none"> 1. Introducing neuroscience and neuropsychology; Christian worldview perspectives 2. Neuroscience research methods 3. The structure and function of the Central Nervous System (CNS) 4. The sensory and motor systems 5. Learning and memory 6. Emotion and language 7. Attachment and relationships 8. Consciousness, attention and executive function 9. Religion and spirituality 10. Neurodevelopmental disorders 11. Clinical neuropsychology 12. Neural plasticity 13. Applications of neuropsychology and implications for professional practice
<p>Learning outcomes</p>	<p>On completion of this unit, students will have demonstrated that they have:</p> <ol style="list-style-type: none"> 1. understood major neurological systems and processes at both the cellular and structural level; 2. explored the neurobiological bases of a range of human behaviours, functions and experiences; 3. evaluated significant debates and controversies within the field of neuropsychology; 4. applied the theories, principles, and research base of neuropsychology to their developing practice as applied social sciences practitioners; 5. critically reflected on the findings and implications of neuropsychology in light of Christian worldview perspectives; and 6. communicated at an appropriate tertiary standard with special attention to correct grammars, punctuation, spelling, vocabulary, usage, sentence structure, logical relations, style, referencing, and presentation.

<p>Assessment tasks</p>	<p>Task 1: Online Quizzes</p> <p>Complete four online multiple-choice quizzes pertaining to content covered in Weeks 1-3, 4-6, 7-9 and 10-12.</p> <p>Word Length/Duration: N/A</p> <p>Weighting: 30%</p> <p>Learning Outcome: 1-3, 6</p> <p>Assessed: Weeks 4,7,10, 13</p> <p>Task 2: Seminar and Handout</p> <p>Prepare a seminar presentation, accompanied by a well-researched and appropriately referenced handout, focussing on the current research findings, debates and implications for professional practice of the topics in the unit.</p> <p>Word Length/Duration: Seminar - 30 minutes; Handout - 1,000 words</p> <p>Weighting: 30%</p> <p>Learning Outcomes: 1-6</p> <p>Assessed: Weeks 5-12</p> <p>Task 3: Research Essay</p> <p>Prepare a thoroughly researched essay addressing a current significant and debated issue in neuropsychology.</p> <p>Word Length/Duration: 2,000 words</p> <p>Weighting: 40%</p> <p>Learning Outcomes: 1-6</p> <p>Assessed: Week 13</p>
<p>Unit summary</p>	<p>This unit continues to build on the knowledge gained in previous units and provides students with an in-depth overview of neuroscience and its relationship to human behaviour. It furthers students' knowledge in the field of cognitive and behavioural neuroscience, including research methods, major findings, current controversies, and Christian worldview implications.</p>