Psychology (PSYC) 451

Human Neuropsychology (Revision 1)

Status:	Replaced with new revision, see the course listing for the current revision 3
Delivery mode:	Individualized study online
Credits:	3
Areas of study:	Arts or Social Science
Prerequisites:	PSYC 302 or PSYC 402
Precluded:	None
Challenge:	PSYC 451 has a challenge for credit option.
Faculty:	Faculty of Humanities and Social Sciences

Overview

Psychology 451: Human Neuropsychology examines the neural substrates of human behaviour, including neuroanatomy, major methods in human brain research,

neurological disorders, neurobehavioural disorders, and classic neuropsychological syndromes.

Outline

Part I: Background

- Unit 1: The Development of Neuropsychology
- Unit 2: Research on the Origins of the Human Brain and Behaviour
- Unit 3: Nervous System Organization
- Unit 4: The Structure and Electrical Activity of Neurons
- Unit 5: Communication Between Neurons
- Unit 6: The Influence of Drugs and Hormones on Behaviour
- Unit 7: Imaging the Brain's Activity

Part II: Cortical Organization

- Unit 8: Organization of the Sensory Systems
- Unit 9: Organization of the Motor System
- Unit 10: Principles of Neurocortical Function
- Unit 11: Cerebral Asymmetry
- Unit 12: Variations in Cerebral Asymmetry

Part III: Cortical Functions

- Unit 13: The Occipital Lobes
- Unit 14: The Parietal Lobes
- Unit 15: The Temporal Lobes
- Unit 16: The Frontal Lobes
- Unit 17: Cortical Networks and Disconnection Syndromes

Part IV: Higher Functions

- Unit 18: Learning and Memory
- Unit 19: Language
- Unit 20. Emotion and the Social Brain

- Unit 21: Spatial Behaviour
- Unit 22: Attention and Consciousness

Part V: Plasticity and Disorders

- Unit 23: Brain Development and Plasticity
- Unit 24: Neurodevelopmental Disorders
- Unit 25: Plasticity, Recovery, and Rehabilitation of the Adult Brain
- Unit 26: Neurological Disorders
- Unit 27: Psychiatric and Related Disorders
- Unit 28: Neuropsychological Assessment

Evaluation

To **receive credit** for the course, you must complete all of these evaluation assignments. You must receive a grade of 50 percent or better on the final exam and a composite course grade of at least **D** (50 percent) (2). The weighting of assignments is as follows:

Activity	Weight
Five Quizzes (5% each)	25%
Term Paper Outline	Pass/Fail
Term Paper	35%
Final Exam	40%
Total	100%

The **final examination** for this course must be requested in advance and written under the supervision of an AU-approved exam invigilator. Invigilators include either ProctorU or an approved in-person invigilation centre that can accommodate online exams. Students are responsible for payment of any invigilation fees. Information on exam request deadlines, invigilators, and other exam-related questions, can be found at the **Exams and grades** section of the Calendar.

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To learn more about assignments and examinations, please refer to Athabasca University's **online Calendar**.

Materials

Kolb, B., & Whishaw, I. Q. (2021). Fundamentals of human neuropsychology (8th

ed.). New York: Worth Publishers. (Print)

Other Materials

All other course materials are available online, including a study guide covering the entire course.

Challenge for credit

Overview

The challenge for credit process allows you to demonstrate that you have acquired a command of the general subject matter, knowledge, intellectual and/or other skills that would normally be found in a university-level course.

Full information about **challenge for credit** can be found in the Undergraduate Calendar.

Evaluation

To **receive credit** for the PSYC 451 challenge registration, you must achieve a grade of at least **D** (50 percent) 🖄 on the exam and a composite grade of D (50 percent).

Activity	Weight
Research Paper	40%
Exam	60%
Total	100%

Challenge for credit course registration form

Important links

- Academic advising
- Program planning
- Request assistance
- Support services

Athabasca University reserves the right to amend course outlines occasionally and without notice. Courses offered by other delivery methods may vary from their individualized study counterparts.

Opened in Revision 1, July 15, 2020

Updated December 12, 2024