

PSY3101 Research Methods and Statistics for Psychology I (3 credits)

This course provides an overview of major research methods and topics in modern applied statistics, especially in relation to conducting surveys and experimental studies in psychology. The course encompasses the explanation of the purposes and scope of survey and experimental studies; plan and design of simple research projects; illustration of the importance of reliability and validity of psychological assessment tools; and introduction of techniques in measuring associations and testing group differences. Statistical techniques such as t-tests, analysis of variances, and correlation analyses are covered. The course emphasises underlying principles and practical application rather than technical details. Students will have hands-on practice in actual data analyses using common statistical software [e.g. jamovi].

PSY3201 Human Development and Psychology of Adulthood (3 credits)

(Prerequisite(s): PSY2101 Introduction to Psychology or PSY3102 Exploring Psychology in Western and Chinese Cultures)

This course introduces theories on human development across the life span and explain how people change (and how they remain unchanged) over time. The course also highlights the psychology of adulthood (including young, middle, and late adulthood) in the most interesting way. Issues relating to developmental problems will be discussed.

PSY3205 Social Psychology (3 credits)

(Prerequisite(s): PSY2101 Introduction to Psychology)

Social psychologists examine how the self and the social context interplay, as well as how individuals influence one another. In other words, social psychology is the study of the influences on and consequences of social interaction. Topics covered in this course include theories and research on social cognition (attitude, stereotypes, and judging others), social influences (conformity, obedience and persuasion) and social relations (prejudice, altruism, and aggression).

PSY3209 Cognitive Psychology (3 credits)

(Prerequisite(s): PSY2101 Introduction to Psychology)

Cognitive psychology is a sub-field of psychology that is concerned with how the human mind works. Cognitive psychologists attempt to address questions such as:

- How do we perceive faces and objects?
- How do we remember things?
- How do we understand language?
- How do we solve problems and make decisions?

This course will discuss major theories and findings from areas such as visual perception, attention, memory, language, problem solving and decision making. It will show how cognitive psychologists attempt to understand the human mind from studying behavior, investigating of the brain, and drawing upon computer models. It will also explore the relation between cognitive psychology and everyday experiences.

PSY4101 Research Methods and Statistics for Psychology II (3 credits)

(Prerequisite(s): PSY3101 Research Methods and Statistics for Psychology I)

The main objectives of this course are to discuss the advanced scientific methods of research in psychology, including the planning and design of research projects, so as to develop the skills necessary to conduct a range of empirical research in psychology. The focus of this course will be on both research techniques and statistical knowledge applied in conducting psychological research. Building on Research Method and Statistics for Psychology I, this course will introduce students the advanced research and statistical methods commonly used in psychological research, including power analysis, factorial designs and analyses, multiple regression, and advanced usage of statistical tests such as mediation and moderation.