

Psychology 152

Conceptions of Intelligence

Spring, 2007

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This course will survey the broad subject of “intelligence”, including its methods of measurement, its predictiveness of success in real-world endeavors, its determinants and underlying cognitive processes. The requirements are a mid-term exam and a final exam. Participation in a 2-hour experiment, conducted outside of class in the instructor’s laboratory, is also required, and must be completed before the mid-term exam.

Required Text

Mackintosh, Nicholas J., **IQ and Human Intelligence**, Oxford University Press, 1998. Required reading also includes articles in the journal, *Intelligence*, which can be accessed on-line through the UCSD library website.

Topics and Assignments

1. Historical Background
Mackintosh, Chapter 1
2. Types of IQ tests and their Psychometric Properties
Mackintosh, Chapter 2
3. Heritability and Biological Correlates
Mackintosh, Chapter 3, Chapter 7 (pp. 231-242)
Plomin, Robert, & Petrill, Stephen, A. (1997). Genetics and Intelligence: What’s new? *Intelligence*, Vol. 24 (1), 53-77
4. Environmental Effects on IQ
Mackintosh, Chapter 4

Mid-term Exam

5. Group Differences
Mackintosh, Chapter 5
6. The structure of Intelligence
Mackintosh, Chapter 6
Carroll, John B. (1997). Psychometrics, intelligence, and public perception. *Intelligence*, Vol. 24 (1), 25-52

7. Reductionist Approaches to Intelligence

Mackintosh, Chapter 8, Chapter 7 (pp. 242-265)

8. Processes underlying Intelligence

Mackintosh, Chapter 9

Conway, Andrew R. A., et al. (2002) A latent variable analysis of working memory capacity, short-term memory capacity, processing speed, and general fluid intelligence. *Intelligence*, Vol. 30 (2), 163-183

Williams, Ben A., & Pearlberg, Stephen L. (2006). Learning of three-term contingencies correlates with Raven scores, but not with measures of cognitive processing. *Intelligence*, Vol. 34 (3), 177-191

9. Relations to Animal Intelligence and Developmental Theories of Intelligence

10. The Big Picture

Mackintosh, Chapter 10