

Psychology D34S

Human Intelligence

Fall 2006 L02

Instructor:

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Office Hours:

Wednesdays days: 10:00 - 12:00

This course will begin with a review of the classical theories of intelligence with a focus on psychometric theory and factor analysis. We will begin with the basic issue of understanding what an individual's score on a test represents and work our way up to the issue of consistent individual differences on a test. Following this, we will survey contemporary approaches and the researches that they have generated. Next we will critically examine the concept of heritability, how it is estimated, and its application to the investigation of individual and group differences found on IQ tests. Time permitting, we will explore some of the personality, social, economic, and familial factors that predict IQ and academic achievement.

Texts:

Kline, P. (1991). *Intelligence: The psychometric view*. London: Routledge.

Gould, S.J. (1981). *The mismeasure of man*. London: W.W. Norton.

Assigned articles to be announced.

Grading:

Your final grade will be based on a mid-term paper (40%), based on data collected in class, and a final paper (60%). The mid-term paper due date will be announced in class. The final paper will be due at the last meeting of the class. For your final paper you will be given a short list of topics from which you will chose one on which to write. The papers should follow APA formatting rules and have a cover page. Three percent will be deducted for each day a paper is late.

Final Exam (30%)

UTSC Final Examination Period

2 hours in length

50 multiple-choice questions which are based on the readings across the course (required readings and material presented in class by your fellow classmates)

Paper (30%)

Students are required to complete a critical review paper. The review is expected to incorporate both a qualitative review of your chosen area of study and demonstration of your ability to "critically review" the research literature surrounding your area of study.

*It must be approved by the instructor first.

Focus should be on either evaluation, understanding or treatment of a given disorder

As an example outline of what is expected, the following is a review paper outline that was commonly used in previous years:

- I. History of the disease (key people and early thinking)
- II. Epidemiology (genetics where applicable)
- III. Pathophysiology
- IV. Behavioral, qualitative aspects of the disorder (DSM Overview)
- V. Treatment modalities
- VI. Critical review of the research literature
 - A. Surveying studies (how and which ones, and why)
 - B. What do these studies say on the surface according to their statistical significance?
 - C. Rationale as to why these studies may be faulty
 - a. Review of effect sizes and why they may be more insightful
 - b. Review of meta analysis and how it can be used to review these studies more validly
 - D. Presentation of Effect sizes and Meta-Analysis
 - E. Your findings, interpretations and conclusions

Requirements

15-30 content pages (i.e., excluding references, etc).

Grading will be based on style, clarity and scholarship.

APA style (5th Ed.) is required.

Due on the last day of class (November 30)

For every subsequent day that it is late, 20% will be taken off.

Important Session Dates

September 24	Last day to add F courses
October 9	Thanksgiving Day – University closed
November 19	Last day to drop F courses without academic penalty
December 4	Last day of classes in F courses. Last day for submission of term assignments in F courses
December 5 to 8	Study break
December 9 to 21	Final Examination Period in F courses.
December 22 to January 3	December break – University closed

Lecture & Presentation Dates

September 14	<u>Welcome</u> Course Description and Requirements Selection of Topics and Presentation Dates
September 21	<u>Psychological Evaluation</u> <ul style="list-style-type: none">• Assessor: Clinical Psychologist• Procedures: Clinical Interview, Psychometric Testing, Diagnostic Formulation, Report Writing, Recommendations• Introduction to the DSM-IV & The Multiaxial Approach
September 28	<u>Clinical Intervention</u> <ul style="list-style-type: none">• Modalities: Psychotherapy, Psychotropic Medication, and other alternatives <u>Critical review of traditional statistical methodologies</u> <ul style="list-style-type: none">• Introduction of meta-analytical approach and effect size analysis: Illustrative examples and calculations. <i>*Please bring your calculators</i>

- October 5 Various Presentations
- Neuroimaging Procedures
 - Sample Meta-Analysis Research
Zakzanis, Graham, & Campbell (2003)
 - Review clinic for statistical methodology
 - Sample preparation and online search
- October 12 Presentations
- Impulse Control Disorders
 - Anxiety Disorders I
 - Schizophrenia and Other Psychotic Disorders I
 - Sexual and Gender Identity Disorders I
- October 19 Presentations
- Factitious Disorder
 - Mood Disorders I
 - Disorders Usually First Diagnosed in Infancy, Childhood or Adolescence I
 - Schizophrenia and Other Psychotic Disorders II
- October 26 No class
- To be utilized for research and writing
- November 2 Presentations
- Mood Disorders II
 - Sleep Disorders
 - Anxiety Disorders II
 - Somatoform Disorders
- November 9 Presentations
- Dissociative Disorders
 - Disorders Usually First Diagnosed in Infancy, Childhood or Adolescence I
 - Delirium, Dementia, Amnestic and Other Cognitive Disorders I
 - Sexual and Gender Identity Disorders II
- November 16 Presentations
- Delirium, Dementia, Amnestic and Other Cognitive Disorders II
 - Eating Disorders

- Substance Abuse
- Personality Disorders
- Personality

November 23

Presentations

- Sexual and Gender Identity Disorders III
- Adjustment Disorder
- Anxiety Disorders III
- Disorders Usually First Diagnosed in Infancy, Childhood or Adolescence II
- Disorders Usually First Diagnosed in Infancy, Childhood or Adolescence III

November 30

Presentations

- Personality Disorders I
- Substance Abuse Disorders
- Delirium, Dementia, Amnesic and Other Cognitive Disorders II

*The final examination will be scheduled by the registrar's office approximately midway through the term.

DSM-IV Based Topics

Disorders Usually First Diagnosed in Infancy, Childhood, or Adolescence*

Delirium, Dementia, and Amnesic and Other Cognitive Disorders*

Schizophrenia and Other Psychotic Disorders*

Substance-Related Disorders*

Mood Disorders*

Anxiety Disorders*

Somatoform Disorders

Factitious Disorder

Dissociative Disorders

Sexual and Gender Identity Disorders*

Eating Disorders*

Sleep Disorders

Impulse Control Disorders

Adjustment Disorders

Personality Disorders*

*Topic areas that can be chosen by more than 1 individual