# PS 3632 Testing and Assessment

**Level 5**  
UK Credits: 20
(Previously PS 3032)  
(Revised Spring 2019)

## Prerequisites:
- PS 1000 Psychology as a Natural Science – Level 4  
- PS 1001 Psychology as a Social Science – Level 4  
- PS 2047 Analysis of Behavioral Data – Level 4  
- PS 2207 Developmental Psychology: Preschool Years – Level 4  
- PS 2236 Human Learning & Memory – Level 4  
- PS 2260 Psychologists as Researchers – Level 4

## Catalog Description:
Comprehensive knowledge of the theory and practice of psychological testing and assessment. Statistical analysis and in-depth understanding of the psychometric properties of tests. Evaluation of achievement, intelligence, cognitive, neuropsychological and personality tests. Application of testing and assessment in various applied settings. Laboratory practice session complements the lectures.

## Rationale:
This course surveys the theory and practice of psychological testing and measurement, the application of psychological tests and assessment in educational, clinical, and industrial/organizational settings, and offers both didactic and hands-on training in psychometric theory and techniques. Topics covered include history of psychological testing, controversies and ethical issues in testing and assessment; psychometric and test development principles and techniques (standardization and norming, reliability, validity, and utility; item analysis); review of intelligence, achievement, personality, cognitive, neuropsychological testing and applications in diverse settings and populations. The course aims to provide students with knowledge and practical skills relevant to all areas of specialization in the field of psychology and complements modules teaching research methodology.

## Learning Outcomes:
As a result of taking this course, the student should be able to:

1. Present a historical perspective of psychological measurement and assessment.
2. Discuss cultural and ethical considerations in testing and assessment of individuals and/or groups.
3. Discuss major assessment applications in various settings (e.g., clinical, counselling, school, forensic, health, and industrial settings).
4. Demonstrate a solid understanding of basic concepts in psychometrics (i.e., standardization and norming procedures, reliability, validity, utility, test development and item analysis).
5. Discuss the utility as well as the relative strengths and weaknesses of intelligence tests, aptitude/achievement, objective and projective personality tests.
### METHOD OF TEACHING AND LEARNING:

In congruence with the teaching and learning strategy of the college, the following tools are used:

- Class lectures will consist of demonstrations of the material presented, videos, discussions, group and individual work, role play examples.
- Interactive learning (class discussions, group and individual work) and practical hands-on problems solved in class and Blackboard.
- Use of the one-way mirror to demonstrate administration of tests.
- Blackboard site
- Office hours

### ASSESSMENT:

<table>
<thead>
<tr>
<th>Summative:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>One Research Paper:</td>
<td>40%</td>
</tr>
<tr>
<td>Validation study of the psychometric properties of an existing instrument (brief description, data analyses and or collection, interpretation and conclusions); 2,500 to 3,000 words.</td>
<td></td>
</tr>
<tr>
<td>2-hour in class final examination:</td>
<td>60%</td>
</tr>
<tr>
<td>Essay questions (choice: 3 out of 5)</td>
<td></td>
</tr>
</tbody>
</table>

**Formative:**

Weekly class and home exercises: Hands-on application of the material presented in class. 0%

The formative lab exercises aim to prepare students for the summative assessments.

The research paper assesses Learning Outcomes 4 and 5.

The final examination assesses Learning Outcomes 1, 2, 3, 4 with emphasis on 1, 2 & 3.

### INDICATIVE READING:

**REQUIRED READING:**


**RECOMMENDED READING:**


### Required Material:
N/A

### Recommended Material:
- Advances in Personality Assessment
- Advances in Psychological Assessment
- European Journal of Psychological Assessment
- Journal of Personality and Individual Differences
- Psychological Assessment

### Communication Requirements:
Project submitted in Word.
Academic use of English, both oral and written.

### Software Requirements:
Blackboard, MS Office, search engines, SPSS

### WWW Resources:
- [http://www.aera.net/divisions/d/](http://www.aera.net/divisions/d/)
- Psychological Testing: [www.psychologicaltesting.com](http://www.psychologicaltesting.com)
- American Board of Assessment Psychology: [www.assessmentPsychologyBoard.org](http://www.assessmentPsychologyBoard.org)
- Association of Test Publishers: [www.testpublishers.org](http://www.testpublishers.org)

### Indicative Content:

**I. Lecture**

**PART I. AN OVERVIEW**
1. Psychological Testing and Assessment
2. Historical, Cultural and Ethical Considerations

**PART II. THE SCIENCE OF PSYCHOLOGICAL MEASUREMENT**
3. A Statistics Refresher
4. Norms, Correlations, and Inferences
5. Reliability
6. Validity
7. Test Development

**PART III. THE ASSESSMENT OF INTELLIGENCE**
8. Intelligence and Its Measurement
9. Tests of Intelligence
| 10. Preschool and Educational Testing |
| PART IV. THE ASSESSMENT OF PERSONALITY |
| 11. Personality Assessment: An Overview |
| 12. Personality Assessment Methods |
| PART V. TESTING AND ASSESSMENT IN ACTION |
| 13. Clinical and Counselling Assessment |
| 14. Neuropsychological Assessment |
| 15. The Assessment of People With Disabilities |
| 16. Assessment, Careers, and Business |
| 17. Computer-Assisted Psychological Assessment |

| II Laboratory |
| 1. Statistics Refresher |
| 2. Reliability and Validity |
| 3. Test Construction |
| 4. Item Analysis |
| 5. Measures of Intelligence |
| 6. Intelligence Report Writing |
| 7. Objective and Projective Personality Testing |
| 8. Personality Report Writing |