THE UNIVERSITY OF HONG KONG
FACULTY OF SOCIAL SCIENCES
Department of Psychology

COURSE OUTLINE (2018/2019, SEMESTER ONE)

1. Basic Course Information

<table>
<thead>
<tr>
<th>Course Code</th>
<th>PSYC2060A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Title</td>
<td>Research and Quantitative Methods in Psychology</td>
</tr>
<tr>
<td>Course Credits</td>
<td>6</td>
</tr>
<tr>
<td>Lecture Time &amp; Venue</td>
<td>Wednesdays 10:30am - 12:20pm; CPD 1.21</td>
</tr>
</tbody>
</table>
| Tutorial Time & Venue | Tuesdays 12:30pm – 1:20pm  
Wednesdays 3:30pm – 4:20pm  
Wednesdays 4:30pm – 5:20pm  
Wednesdays 5:30pm – 6:20pm  
Fridays 12:30pm – 1:20pm  
Fridays 5:30pm – 6:20pm  
Venue: All tutorials will be held at CPD3.41 |

2. Course Instructor / Course Co-ordinator

<table>
<thead>
<tr>
<th>Name</th>
<th>Office</th>
<th>Phone</th>
<th>E-mail</th>
<th>Consultation Hour (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Jonathan Yeung</td>
<td>6.16, JCT</td>
<td>39178205</td>
<td><a href="mailto:jney@hku.hk">jney@hku.hk</a></td>
<td>Thursdays, 3pm – 4pm</td>
</tr>
<tr>
<td>(Instructor)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr Lance Wong</td>
<td>6.17, JCT</td>
<td>39178227</td>
<td><a href="mailto:lancewlw@hku.hk">lancewlw@hku.hk</a></td>
<td>Fridays, 3:30pm – 4:30pm</td>
</tr>
<tr>
<td>(Tutor)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Mr Eric Ma</td>
<td>6.13, JCT</td>
<td>39178226</td>
<td><a href="mailto:mkyeric@hku.hk">mkyeric@hku.hk</a></td>
<td>By appointment</td>
</tr>
<tr>
<td>(Tutor)</td>
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</tbody>
</table>

3. Course Description

This course aims to extend the learning of students from introductory courses (e.g., PSYC1004) to cover more advanced quantitative methods used in psychological research. Students are taught to apply the quantitative methods to analyze data, interpret the results, and report the findings. The knowledge and skills acquired from this course enable students to conduct empirical research more independently. This course also aims to enhance students’ abilities to evaluate psychological research critically from methodological, statistical and ethical perspectives.

4. Course Learning Outcomes

On completing the course, students will be better able to:

- identify the appropriate statistical methods to apply for research designs and methodologies;
- perform appropriate statistical procedures to analyze data and interpret the results;
- report psychological research findings;
- evaluate psychological research critically from methodological, statistical, and ethical perspectives.
5. **Assessment Methods and Weighting**

<table>
<thead>
<tr>
<th>Assessment methods</th>
<th>Weighting in final course grade (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial Participation</td>
<td>5%</td>
</tr>
<tr>
<td>Homework assignments (planned due date)</td>
<td></td>
</tr>
<tr>
<td>• Assignment 1 (28 Sep)</td>
<td>10%</td>
</tr>
<tr>
<td>• Assignment 2 (16 Oct)</td>
<td>10%</td>
</tr>
<tr>
<td>• Assignment 3 (9 Nov)</td>
<td>10%</td>
</tr>
<tr>
<td>• Assignment 4 (28 Nov)</td>
<td>10%</td>
</tr>
<tr>
<td>Quiz 1 (venue: CPD1.21)</td>
<td>20%</td>
</tr>
<tr>
<td>Quiz 2 (venue: KB223; 10:30am to 12:15pm)</td>
<td>35%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

6. **Course Contents and Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture date</th>
<th>Lecture topic</th>
<th>Reading</th>
<th>Tutorial topic</th>
<th>Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5-Sep</td>
<td>Course overview; Basic statistical concepts</td>
<td>Howell - Chapter 2, 4, 5, and 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>12-Sep</td>
<td>Hypothesis testing, effect size, confidence interval</td>
<td>Howell - Chapter 8, 12, 13, and 14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>19-Sep</td>
<td>ANOVA (1)</td>
<td>Howell - Chapter 16</td>
<td>Review on Hypothesis Testing</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>26-Sep</td>
<td>ANOVA (2)</td>
<td>Howell - Chapter 17</td>
<td>(Public holiday)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>3-Oct</td>
<td>ANOVA (3)</td>
<td>Howell - Chapter 18</td>
<td>One-way ANOVA</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>10-Oct</td>
<td>Statistical power; Logic of experimental design</td>
<td>Howell - Chapter 15</td>
<td>Factorial ANOVA 1</td>
<td></td>
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<tr>
<td>7</td>
<td>17-Oct</td>
<td>Reading week</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>24-Oct</td>
<td>Quiz 1; Evaluation of research (1)</td>
<td>Jackson – Chapter 9</td>
<td>Factorial ANOVA 2</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>31-Oct</td>
<td>Evaluation of research (2); Research ethics</td>
<td>Jackson - Chapter 2</td>
<td>Repeated-measures ANOVA</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>7-Nov</td>
<td>Association of continuous variables</td>
<td>Howell - Chapter 9</td>
<td>Wrap-up on ANOVA</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>14-Nov</td>
<td>Regression (1)</td>
<td>Howell - Chapter 10</td>
<td>Review on Simple Regression</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>21-Nov</td>
<td>Regression (2)</td>
<td>Howell - Chapter 11</td>
<td>Multiple Regression 1</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>28-Nov</td>
<td>Association of categorical variables</td>
<td>Howell - Chapter 19</td>
<td>Multiple Regression 2</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>5-Dec</td>
<td>Quiz 2</td>
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7. **Textbooks**

**Required**

**Reference**
8. **Feedback Policy**

Every effort will be made to return graded assignments with feedback to students and to inform them on the results of quizzes/tests as soon as feasible. In any case, student can expect to receive feedback within three weeks after submitting a written assignment or taking a quiz/test. Quiz/test papers will not be returned to students. However, students can obtain individual feedback for quizzes/tests through individual appointments with the tutors.

All students are welcomed to approach the instructor or tutors for any learning challenges encountered in this course or support for their initiatives to learn more advanced contents on top of the course’s coverage.

9. **Important Notes**

- **Academic Honesty:**
  
  Academic dishonesty will not be tolerated. Any student who engages in any form of academic dishonesty (e.g., cheating on exams, plagiarism, self-plagiarism, interfering with grading, falsification and fabrication of data in any academic exercise, etc.) will receive a grade of F on the component(s) of assessment concerned or in this course and will be reported to the Department/Faculty Office/University Disciplinary Committee for further disciplinary action. There will be no exceptions. If you are not sure what constitutes the academic offense of plagiarism, checkout the webpage at http://www.hku.hk/plagiarism. Department of Psychology has formulated departmental polices/guidelines on student misconduct. Visit the website at https://www.psychology.hku.hk/?page_id=1814 for more information.

- **Plagiarism:**
  
  A softcopy is required for all written assignments. The softcopy will be checked for plagiarism against a database of articles, books, webpages, and essays submitted by students at HKU and other universities. No credit will be given for an assignment that contains plagiarized materials. Further penalties will also be applied. These penalties include a zero mark for participation in course tutorials and a zero mark for the course. Plagiarism will also be reported to the Department/Faculty Office/University Disciplinary Committee for consideration of possible disciplinary action.

- **Any other course/class policies:**

  Students are expected to attend all class sessions punctually and participate actively in each session/tutorial. Before each session/tutorial, students should read the assigned papers and/or textbook chapters. Students must complete their home assignments independently and submit all assignments on schedule. An assignment is due at 11:55pm on the day of the deadline. The maximum mark for a belatedly submitted assignment will be reduced by 5% per calendar day lapsed and exceptional situations (e.g., medical conditions) will be handled by discretion. Each assignment submission should have the student’s name, UID and tutorial session on the front page as a minimum. The filename(s) of the submitted assignment file(s) must commence with “[UID]Assignment[assignment number]”, e.g., “3012345678Assignment2.docx”.

  Students must work independently on all quizzes/tests, and all quiz/test materials must be returned. Leaving the venue with quiz/test materials or making copies of the materials are considered as academic dishonesty. For absence in a class quiz/test due to sickness, arranging a make-up quiz/test will be considered only if valid pertinent medical certification is provided. Any request for a make-up quiz/test must be made by email to the course instructor within two days after the day of the original quiz/test.