

# STAT 404 PROJECT RUBRIC

Names:

Project topic:

<b>Design (10 marks)</b> <ul style="list-style-type: none"> <li>• Arguments for including or excluding variables</li> <li>• Arguments for choosing levels</li> <li>• Appropriate type of design</li> <li>• Blocking</li> <li>• Randomization</li> </ul>	<b>Weak (0–4)</b> Most elements missing	<b>Acceptable (5–7)</b> Most elements are considered and described well	<b>Excellent (8–10)</b> All elements are considered and described well; choices are well justified
<b>Analysis (10 marks)</b> <ul style="list-style-type: none"> <li>• Appropriate ANOVA / regression model</li> <li>• Appropriate model checking</li> <li>• Identification of important effects</li> <li>• Effects explored via contrasts, tables, and plots, etc.</li> <li>• Further analysis relating to objectives (e.g., optimal levels)</li> </ul>	<b>Weak (0–4)</b> Most elements missing	<b>Acceptable (5–7)</b> Most elements are considered and described well	<b>Excellent (8–10)</b> All elements are considered and described well; choices are well justified
<b>Report (10 marks)</b> <ul style="list-style-type: none"> <li>• Formulation of the problem with clear objectives</li> <li>• Well structured sections and paragraphs</li> <li>• Concepts/jargon explained</li> <li>• Tables and/or figures are well constructed</li> <li>• Conclusions clear and relating to objectives</li> </ul>	<b>Weak (0–4)</b> The reader is unsure what was done or achieved	<b>Acceptable (5–7)</b> Report is well structured and it is easy to follow the statistical arguments	<b>Excellent (8–10)</b> The reader quickly understands what was done, the important implications are obvious, and the advantages and limitations are made apparent
<b>Difficulty (5 marks)</b>	<b>Weak (0–2)</b> Simple design and analysis illustrating few STAT 404 concepts	<b>Acceptable (3)</b> Demonstrates mastery of several important STAT 404 concepts	<b>Excellent (4–5)</b> Critical evaluation of STAT 404 concepts and/or extends the methods of the course