

## Course Outline

Week	Topic
Sept 1	<p><b>Reporting guidelines</b></p> <p><b>Required materials:</b> If you have a draft methods section, bring this to class with you. If you don't have a draft methods section, be prepared to start drafting one in class and complete this before next class.</p> <p><b>Deliverables:</b> Students will identify the appropriate reporting guideline for the study design, and either augment their current methods section with missing information or draft a methods section in accordance with the guideline.</p>
Sept 8	<p><b>Risk of bias:</b> Blinding, randomization and inclusion &amp; exclusion criteria</p> <p><b>Required materials:</b> Bring your own methods section or study design, ideally involving animals and/or any samples that need allocation to different conditions that you are investigating.</p> <p><b>Deliverables:</b> Participants will improve reporting for blinding, randomization, and inclusion/exclusion criteria. Participants may also develop blinding and randomization plans for their experiments.</p>
Sept 15	<p><b>Risk of bias:</b> Attrition and flow charts</p> <p><b>Required materials:</b> Participants who have completed their experiments should bring attrition data.</p> <p><b>Deliverables:</b> Students will design a flow chart for reporting attrition.</p>
Sept 22	<p><b>Research Resource Identifiers (RRIDs)</b></p> <p><b>Required materials:</b> Bring your own methods section and your ORCID.</p> <p><b>Deliverables:</b> Participants will add RRIDs to their methods section and address other factors identified by SciScore.</p>
Sept 29	<p><b>Reproducible methods: Shortcut citations &amp; protocol repositories</b></p> <p><b>Required materials:</b> Bring your own protocol (this can be a protocol for part of your experiment).</p> <p><b>Deliverables:</b> Students will upload their protocol on a protocol repository. Students can choose whether to make the protocol public after it is completed.</p>
Oct 6	<p><b>Common data visualization problems</b></p> <p><b>Required materials:</b> Bring your own data and any figures.</p> <p><b>Deliverables:</b> Participants will identify and fix common data visualization problems.</p>

<b>Oct 13</b>	<b>Statistical reporting for t-tests &amp; ANOVA</b>  <b>Required materials:</b> Bring your own methods (statistical analysis) and results section.  <b>Alternative activity:</b> Participants who didn't use t-tests or ANOVA for their analyses will critique a published paper.  <b>Deliverables:</b> Participants will identify & fix common problems with statistical reporting for t-tests and ANOVA.
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