

開授課程大綱

課程名稱： 科學論文寫作: 認知科學研究

(中文課程大綱):

整體目標：發展學門內特定領域的科學論文寫作課程。

具體目標：提供認知科學研究期刊論文投稿的寫作、提交及修改科學論文之程序性知識，以及研究計畫的申請等各項訓練。

課程內容：由葉素玲、連韻文及亞瑟伍德三位教授根據各自專業共同指導此課程。葉素玲教授指導知覺研究之科學內容，連韻文教授著重於認知研究，亞瑟伍德教授則負責寫作及修訂之架構及其他程序，以及與統計分析相關的主題。

主題涵蓋：

1. 詳細指示作者如何決定投稿的期刊以及如何獲得與期刊投稿相關的資訊
2. 寫作論文草稿之策略
3. 如何寫出有效傳達訊息的段落
4. 利用圖表呈現學術內容
5. 考慮讀者角度，確認讀者能理解內容
6. 訓練作者寫出有效的討論、結論、標題及摘要，將重點放在4W上(4W：為何做此研究; 此研究做了什麼; 此研究發現了什麼; 此研究的重要性)
7. 同儕評閱彼此草稿
8. 對期刊審查的評閱之回應
9. 如何撰寫研究提案

課程要求：

參與同學必須承諾以下：

1. 在學期末呈交英文論文
2. 即便忙碌也必須參與每堂課(除非有出國開會或其他合理理由)

成績評量：

依據課堂參與及最後繳交之英文論文評量

參考書目：葉素玲、亞瑟伍德 (2012)。提高科學產能：撰寫傑出期刊論文和研究計畫的秘訣。台北市：台大出版中心。

課程名稱： Scientific writing: Cognitive science research

(英文課程大綱):

Overall goal: to develop a domain-specific scientific writing course at the area level in a department.

Specific goal: to provide procedural and content knowledge about writing, submitting,

revising a scientific paper, as well as research proposal for grant application in cognitive science research.

Coverage: Professor Su-Ling Yeh, Professor Yunn-Wen Lien, and Professor Art Woodward will co-teach this course. The three teachers will divide up the tasks according to their expertise. Professor Yeh will cover the scientific content of studies on perception, Professor Lien will cover the scientific content of studies on cognition, and Professor Woodward will cover the schema and other procedural aspects of writing and revision, as well as certain topics in design and statistical analysis when those arise.

Topics include:

- 1) Obtaining and reviewing in detail the instructions to authors from the journals that are likely to submit to;
- 2) Strategies for creating the first draft (e.g., inside out);
- 3) Creating effective paragraphs;
- 4) Presentation of technical information such as tables and graphs;
- 5) Audience checks to make sure the readers can understand;
- 6) Training designed to focus the writer on the four Ws in writing discussions, conclusions, title, and abstracts (Why was this research; What was done; What was discovered; Why is it important.);
- 7) Peer review of classmate's drafts of their article;
- 8) How to respond to reviews from journals;
- 9) How to write research proposal.

Requirements: Students must agree to do the following:

- 1) The students must agree to submit an English language article by the end of the course.
- 2) They will must agree to attend all classes even when they are busy (unless there is some very important trip or whatever).

Assessment: Evaluation will be based on class participation and the paper submitted by the end of the semester.

Course Materials: Yeh and Woodward (2012). Increase Science productivity: The secrets to writing winning articles and research proposals. NTU press: Taipei.