AP8125
CRITICAL ANALYSIS OF ATMOSPHERIC ENVIRONMENTAL RESEARCH

Lecture venue : S1-702-D
Lecture time: Thursdays (10:00 am - 12:00 pm)

Instructors:

Prof. Neng-Huei (George) Lin
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- Guides you <u>from</u> the experimental / analysis stage of your research <u>into</u> the writing stage

- Teaches you to critically analyze scientific research articles, including their primary research question, and overall structure and content

- Transfers this knowledge to benefit your own research writing and presentation delivery

WHAT THIS COURSE DOES…

- Critically analyzes your experimental design

- Teaches you how to use analytical instrumentation / numerical models

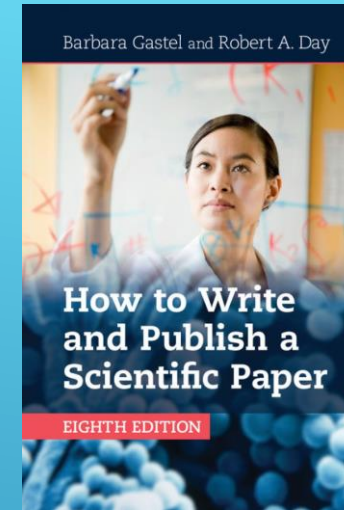- Critiques your statistical / data analysis
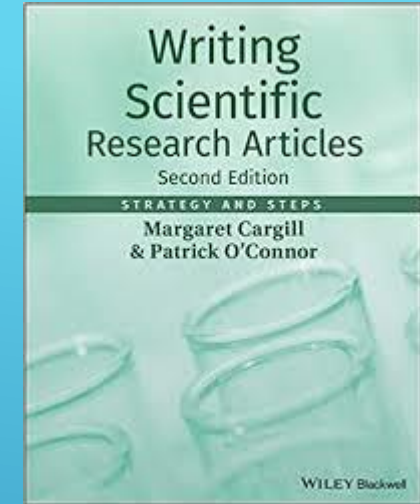
WHAT THIS COURSE DOES NOT DO…

Topics

- *Week 1:* Introduction

- *Weeks 2-7:* The key components of a research article

- *Weeks 8-9:* Elements of style

- *Weeks 10-11:* Conference communications (oral and poster)

- *Weeks 12:* Targeting an Atmospheric Science journal and submitting the manuscript

- *Weeks 13-14:* Peer review and Reviewer Response docs

- *Week 15:* Student Presentations

TOPIC LIST (TENTATIVE)

- **Academic journal articles:** electronic copies will be provided ahead of time

- **Books:** excerpts to be used in discussion will be provided (English versions of the books are available in the NCU library and some Chinese editions are also available, but neither are required)
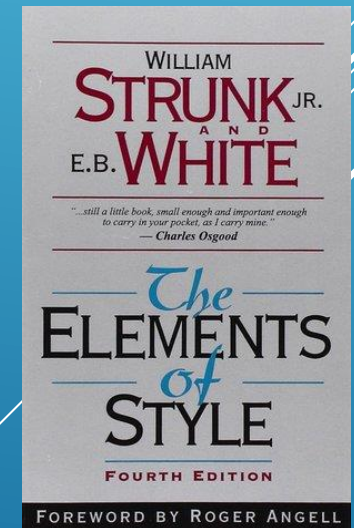
MATERIALS (BOOKS NOT REQUIRED)

www.Cambridge.org

www.wiley.com

www.allynbaconmerrill.com

- **Research paper:** 50%
  - Developed from a research question related to your own work
- **Presentation:** 20%
  - 12 min presentation, 3 min Q&A
  - Date: Tentatively scheduled for Week 15
- **Participation:** 30%
  - This course is primarily discussion-based, so participation opportunities will be plentiful

ASSESSMENT