

**University of Hawaii at Manoa**  
**Department of Mechanical Engineering**  
**ME 491 Special Topics in Mechanical Engineering: How to do research**  
**(3 credits) Spring 2017**

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**Instructor**

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Office Hours: By email appointment

**Prerequisites**

ME311, ME322, and ME422, or instructor's consent.

**Course description**

This course introduces the basic skills of preparing and publishing a scientific research.

**Course objectives**

By the end of this course, the students are expected to:

- Understand the nature and style of scientific/academic writing;
- Be able to write with the style of scientific/academic writing.

**Textbook**

- Barbara Gastel, and Robert A. Day, *How to Write and Publish Scientific Paper*, 8th ed., Greenwood, 2016.

**Supplemental Reading**

- John M. Swales, and Christine B. Feak, *Academic Writing for Graduate Students: Essential Tasks and Skills*, 3rd ed, University of Michigan Press, 2012

**Topics**

- Introducing scientific writing
- Preparing tables and figures
- Preparing the text
- Publishing the paper
- Presenting the paper

**Course schedules**

Lectures:                      TH    12:00-1:15 pm                      at POST 127

**Course website**

PDF files of lectures and handouts are available at *Laulima*.

**Exams and Grading**

- Homework and class participation                      50%
- Final project report and presentation                      50%