

# ME 361

## Thermodynamics

Course homepage: <http://ecow.engr.wisc.edu/cgi-bin/get/me/361/1pfotenhaue/>

### Textbook

#### *Fundamentals of Engineering Thermodynamics*

M.J. Moran and H.N. Shapiro, 6<sup>th</sup> edition  
John Wiley and Sons, New York, New York

### Instructor

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Office Hours:

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### Course Objectives

- Introduce the First and Second Laws of Thermodynamics
- Apply the First and Second Laws to practical engineering problems
- Develop problem solving skills in energy-related areas
- Develop within the student an understanding of the relationship between our society's energy "use" and the environmental challenges we are facing.

### Grading

Homework	30 %
Exams (2)	30 %
Take home project	15 %
Final Exam	25 %

### Homework

- Homework is due at the start of class; late homework will not be accepted.
- Homework grades will be 0, 1, 2, or 3 pts: a zero represents little or no effort and a 3 is completely correct. Poorly drawn graphs are not acceptable.
- It will be your responsibility to compare your homework to the posted solutions; however, we will certainly be willing to discuss your solution either personally or at the beginning of class.
- Homework assignments & solutions will be posted on the course home page

### General Comments

Instead of viewing thermodynamics as a subject, it is better to view it as a new way of thinking. In this course we will try to transition you into this new way of thinking. It will involve reorganizing your thought processes around some rather abstract concepts; things that you can't see, feel, smell, taste or directly interact with. Yet these concepts are real and have, to date, never been proven wrong. I personally think that this way of thinking is illuminating and will enable you to put in perspective many of the societal issues you read about and ultimately vote on.

Please note: Beyond the fact that your homework is worth 30% of your grade, it will be the practice you need to open up this new way of thinking. Furthermore, there is an undeniable correlation between those who are conscientious and do a good job on their homework and those who do well on the exams.

I am looking forward to a fun semester.