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Syllabus & Lecture  
Notes for Thermo I  
(chapters 1-6) (The  
Lecture Notes for  
Thermo II will be  
posted in the future)  
Chapter 1. Lecture 1:  
Introduction and scope.

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Lecture 2: System, state properties; working with units.  
Chapter 2. Lecture 3: PVT behavior of pure fluids, PV and PT graphs, Antoine equation, lever rule.

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LECTURE NOTES .

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- Chapters: 1.  
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The First Law of  
Thermodynamics. 3.  
The First Law Applied  
to Engineering Cycles.  
4. Background to the  
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System Engineering  
Devices and Typical  
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System, Steady State  
Flow Examples. Lecture  
20: More Open System  
Energy Balance  
Examples. PART 8: THE  
2nd LAW OF  
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cyclical processes.

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THERMODYNAMICS  
CONCEPTS I.

Thermodynamics (VW,  
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Describes processes  
that involve changes in  
temperature.

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transformation of  
energy, relationships  
between heat and  
work. B.

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### **INTRODUCTION**

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and give regular mock  
tests for getting a good  
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Section 1 : Concept of  
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Section 2 : The First

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Law of  
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Section 3 : Application  
of the First Law to  
Open Systems. Section  
4 : Measurement of  
Enthalpy and Internal  
Energy using Flow  
Calorimeter. Chapter 4  
: Second Law of  
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Thermodynamics of  
Materials | Materials**

...

Thermodynamics  
Describe processes  
that involve changes in  
temperature,  
transformation of  
energy, relationship  
between heat and work  
From Greek, thermos  
=heat, and dynamis =  
power The results of

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thermodynamics are essential for other fields of physics and for chemistry, chemical engineering, cell biology, biomedical engineering, and materials science.

## **ME 331**

### **Thermodynamics II- lecture 1**

Chapter 1 starts with the very basics. I assume you know nothing about Thermodynamics. We'll

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talk about basic concepts like pressure, specific volume, and gage pressure in this chapter. In addition to the lectures, you'll also find the outline of notes in this chapter. Make sure you download it because it's one of my students' favorite ...

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