

**NTHU ESS 241000, Spring 2013**  
**Engineering Thermodynamics**  
工程熱力學

**Instructor:** 陳紹文 (辦公室: 工科館 208 室, 分機: 34169, E-mail: chensw@mx.nthu.edu.tw )

**Lecture time:** M7, M8, R6,           **Classroom:** ESS 501

**Grade:** Homework: 20%, 1<sup>st</sup> Midterm: 25%, 2<sup>nd</sup> Midterm: 25%, Final: 30%

**Note:**

1. 作業視同考試**不得抄襲!**抄襲與被抄襲者皆以零分計; 第二次抄襲倒扣 50 分, 第三次扣 100 分...
2. 作業繳交時間: 公告作業後**一周內**繳交助教 (例如本周四公告, 下周四交, 晚上 11:59pm 截止)
3. 作業**遲交**: 於助教公告解答前交, 該次分數**八折**; 公告解答或發還作業後, 以**零分**計
4. 如有特殊狀況, 請持學校公假單, 政府單位證明或醫師證明, 考試/作業得以請假或延遲

**TA:**

(1): 劉庭璋(碩二): 工科新館 305, 分機: 35809, E-mail: sos32144320@hotmail.com

**Office Hour:** 星期二 6:00pm-8:00pm 在工科新館 305

(2): 張睿珈(碩一): 工科館 424, 分機: 34269, E-mail: bellefrogirl@gmail.com

**Office Hour:** 星期二 6:00pm-8:00pm 在工科新館 305

**Textbook:** Michael J. Moran and Howard N. Shapiro, "Fundamentals of Engineering Thermodynamics," 7th Edition

**Tentative outline:**

1. Overview and Review (3 hours)
2. Chapter 7 Exergy Analysis (5 hours)
3. Chapter 8 Vapor Power System (8 hours)

**1<sup>st</sup> Midterm Exam, 3/28, 7:00 pm, ESS501**

4. Chapter 9 Gas Power System (10 hours)
5. Chapter 10 Refrigeration and Heat Pump System (6 hours)

**2<sup>nd</sup> Midterm Exam, 5/9, 7:00pm, ESS501**

6. Chapter 12 Ideal Gas Mixtures and Psychrometrics Applications (8 hours)
7. Chapter 13 Reacting Mixtures and Combustions (8 hours)

**Final Exam, 6/20, 7:00pm, ESS501**