

Course Syllabus

MECH 3120.103
HEAT TRANSFER LAB
Fall 2016
Fridays 10:00 AM-12:45 PM in ECSN 2.804

Professor Contact Information

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Office Hours: Tuesday, Thursday 9:00-10:00 AM

TA: Lin Jiang
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Office Hours: Fridays 10:30 AM -11:30 AM

Pre-requisite: Heat Transfer Course

Course Description: Project-based course associated with MECH 3320. Course emphasis is on experiments related to thermodynamics, heat transfer, and fluid mechanics. Proper experimental methods, data and uncertainty analysis related to thermal and fluids measurements are discussed.

Student Learning Objectives/Outcomes

1. Demonstrate heat transfer principles, mainly conduction and convection, using experiments.
 2. Measure efficiency of thermal systems such as heat exchangers.
 3. Function as a team to plan, perform, and report a series of experiments related to heat transfer topics.
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Required Textbooks and Materials: Lab Manual.

Suggested Course Materials: Course Notes

Assignments & Academic Calendar

Final Exam: Dec. 2nd at 10:00-10:30 A.M.

Grading Policy: Class participation (20%), Reports (50%), Final Exam (30%).
All submitted reports should follow the format in template shown in elearning website. Reports are submitted in a group of three. You will choose your partners in the first class and you will not be

allowed to change your partner after submission of first report. No complain about your partner contribution to the report will be accepted.

Course & Instructor Policies

- **No makeup exams will be given.**
 - All Exams will be **CLOSED BOOK, CLOSED NOTES. NO ELECTRONIC DEVICES OF ANY KIND** (including laptop, iPods, cell phones, blackberrys, etc.) will be allowed in exam rooms during exams.
 - **NO MAKEUP CLASS (ONLY WITH OFFICIALLY ACCEPTABLE DOCUMENTATION**, student can make it up in the different session).
 - If you show up late (more than 10minutes after the experiments start), you will lose 10 points of your report. If you don't show up in the lab, you will lose your report grade completely. Your partner writes a solo report.
 - Late reports will not be accepted. No digital report will be accepted.
 - Class attendance required. If you don't show up in the class/lab, you will miss your report grade completely.
 - All announcements, e.g. HW, and exam dates will be posted on **eLearning**. This is the student's responsibility to check the course eLearning website regularly.
 - **No cell phones, iPods, laptops or other devices in class.** The students are expected to participate in class discussions and follow the instructor guidelines.
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Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.