



# ME 7953: Simulations in Materials

Fall 2002

## Course Organization

- Objective:** Materials modeling, visualization, and simulations with Matlab. Simulation methods covered including molecular dynamics, material point method.
- Prerequisites:** 2733 Materials of Engineering  
2262 Numerical Methods and Fortran or equivalent programming experience
- Instructor:** Honglai Tan (“Henry”), CEBA 2506
- Text:** Handouts and web materials
- Course Times:** Lectures – Monday, Wednesday and Friday 11:30 – 12:30am  
CEBA 1114
- Office Hours:** Most of time I will be in the CAD lab of ME Dept.
- Grades:**  $F \leq 50 < D \leq 60 < C \leq 70 < B \leq 80 < A$   
20% Homework  
25% Project 1 (molecular scale simulation)  
25% Project 2 (continuum scale simulation)  
30% Final Project (simulation project)
- Homework:** Given out in Wednesday class, due at the beginning of class the following Wednesday. Late work will be given no credit.
- Projects Due Dates:** Project 1 – Monday, 9/30/02, turn in before class.  
Project 2 – Friday, 11/1/02, turn in before class.
- Final Project Due Date:** Work on a simulation project.  
Due date: Tuesday, 12/10/02.