

ME 684, Automotive Engineering Design II, CRN 12429, Winter, 2004
(Automotive Engineering – Vehicle Integration Design)
TR 5:30 ~ 7:17 PM, 378 SEB

Instructor : Yin-ping (Daniel) Chang, Assistant Professor, 132 DHE, (248) 370-2209, ychang@oakland.edu , Office hours : by appointment.

References : “Theory of Ground Vehicles,” J. Y. Wong, 3rd ed., 2001, John Wiley & Sons.
“Fundamentals of Vehicle Dynamics,” Thomas D. Gillespie, 1992, SAE.
“Tyres, Suspension and Handling,” John C. Dixon, 2nd ed., 1996, SAE.
“Automotive Handbook,” BOSCH GmbH.
“PAM-CRASH/PAM-SAFE,” ESI Group.

Prerequisites : ME 584 or permission of instructor.

HW Policy : The HW is due at the beginning of the class on the due date. HW solutions will be provided after due dates. **NO LATE HW WILL BE ACCEPTED!!** Any questions about the grading should be addressed to the instructor, not the TA, within one week after it's been returned.

Exam and Grading Policy : The final course grade will be a weighted average of :

4/8 HW assignments	20%
Mid-term Project	40%
Final Project (15 mins. presentation)	40%

>90--4, >80--3, >70--2, >60--1, <50--0. This serves as a guideline only and may be changed based on class performance. (Again, any questions about the grading of exams should also be addressed to the instructor, not the TA, within one week after it's been returned.)

Objectives : To develop an understanding of the fundamentals of vehicle and tire dynamics. Mathematical modeling and industry application of ground vehicle performance, handling, ride characteristics, and tire mechanics.

CLASS ATTENDANCE IS STRONGLY RECOMMENDED

Academic Conduct : students are expected to read, understand, and comply with the “Academic Conduct Policy” as explained on page 70 of Oakland University 2003-04 Undergraduate catalog and page 24 of Oakland University 2003-05 Graduate catalog. Violations will be taken before the Academic Conduct Committee. Students found guilty of academic misconduct in this course will receive a grade of 0.0 in addition to any penalties imposed by the Academic Conduct Committee.

HELP ME HELP YOU!!