Course Instructions

Purpose: Vibrations and Waves is a course intended to prepare you for the study of many kinds of oscillating systems that you will encounter later in both experimental and theoretical physics. The emphasis of the course is on solving problems, and a substantial part of the course is spent on problems that will exercise the principles that govern oscillating systems. The lecture course and its associated Laboratory course, Phys242L, are very closely coupled, to the point that the separation between them may become indistinguishable.

Location: Room 109, Workman Blg.

Hours: Tu,Th from 9:30 to 10:45 am.

Instructor: Carlos Lopez Carrillo.
email: `clopez@kestrel.nmt.edu`
Tel: 835-5047, Office: 111 Workman Blg.

Office hours Friday, 14:45–16:45; other times by appointment.

Textbook: *The Physics of Vibrations and Waves in Physics, 6th Edition*, by H.J. Pain. Published by Willey, ISBN-0-470-01296-X (paperback).

Etiquette: Avoid class disruptions: cell phones should be reserved for emergencies –no text. If you must, please take the call outside. Come prepared and ready to work with questions, and materials needed. Being on time is important. If you are late, please try to keep the disruption to a minimum.

Announcements: Information about the class (dates, homeworks, exams, etc.) will be at
physics.nmt.edu/∼clopez/phys242.html
New Mexico Tech offers a variety of services, please refer to **www.nmt.edu**.

Homework: It will be assigned during class on Thursdays and is due at the **beginning** of the following class period. Homeworks must be stapled with each page showing the homework number. Also write problem number clearly at the top of the page. You must show all your work, so that it is easy to follow how you arrived at your solution. When a numerical or algebraic answer is required, draw a box around it. Answers must be labeled with the proper units. Homework papers which do not meet these guidelines may be rejected with no grade.

Grading: No grade of "incomplete" will be awarded for any reason. The weighting of your final grade will be as follows :

Class Participation	5%
Homework	20%
Regular Exams	60%
Final Exam	20%

Yes, there is an extra 5% for class participation that you could use in case something goes wrong in any assignment.

POLICES.-

Permissions: Changing due day of a homework or exam day could be granted if the circumstances, in my opinion, warrant such change.

Grading: I will grade your homework and exams as soon as possible. Once I have returned them, you will have a maximum of one week to dispute your grade. There is, however, no time limit to talk to me about them.

Homework: You are encouraged to discuss homework problems with your classmates, but I expect that the work that you present to me for grading is your own.

Exams: The content of each exam may vary as I see fit, but I let you know at least a week in advance. Exams are to be taken individually. The final exam will emphasize the later parts of the course, but it will be inclusive of the whole course. It will be given at the time and place announced by the Registrar.

Academic Honesty: You may discuss material with each other, and I encourage it, but anything written must be your own work. It is not permissible to give or receive answers in a way that bypasses the need to think on your own about the assignments. Help received from any source must be acknowledged. Omitting proper acknowledgment is a violation of this policy and can have serious consequences. If in doubt, please ask me. Violation of the letter or intent of this policy will result in serious harm to your grade, and may result in recommendation for suspension from the Institute. Note that New Mexico Tech has formal policies regarding academic honesty, please refer to "Responsible Conduct for Undergraduate Students" on the Tech's catalog.

Acknowledgments: This course was first developed by Paul R. Krehbiel, Professor of the NMT physics department. It was further refined by Timothy H. Hankins and Barry Sabol also from NMT physics. I have taken their work, including this set of instructions, as the base for this class.