MAP 5514

Fall 2005, 3 credit hours

INSTRUCTOR:	Prof. D. J. Kaup
OFFICE:	MAP 202C
OFFICE HOURS:	M – R, 2:30 - 3:30 (Other hours by appointment)
PHONE:	407-823-2795
E-MAIL:	kaup@ucf.edu
CLASS LOCATION:	MAP 202
CLASS TIMES:	T and R: 4:30 - 5:45
TEXTBOOK:	"Wave Motion"
	Authors: J Billingham and A.C. King

MATERIAL COVERED: We shall start at the front, and continue toward the back of the book.

ATTENDANCE POLICY: Attendance will be taken.

HOMEWORK: Homework will be collected and graded. Homework will be due one week after it is assigned.

EXAMS: There will be two in-class examinations and a mandatory final. The dates, subject to change, are:

Exam #1 – Oct. 4, 2005
Exam #2 – Nov. 3, 2005
Final Exam: To be announced

GRADING POLICY:
Attendance – 10%, Homework – 25%, Exams – 35%, Final Exam – 30%. I will use +/- grades.

GRADING SCALE:

Average	Grade
90-100%	A
80-86%	B
70-76%	C
60-66%	D
0-58%	F

CHANGES: This syllabus is subject to change at any time during the semester. Any such change shall be posted on my website: http://math.ucf.edu/~kaup/.

STUDY HINTS:

1. Read the chapter before any lecture on that chapter. Make a list of any questions that you may have from your reading of that chapter. Get them answered in lecture, or after class.
2. Watch for and learn the nomenclature of the chapter and of this subject. In addition to your textbook, there is a fairly good paperback mathematics dictionary published by Harper Collins.
3. Any confusion that you may have about what is the meaning of any paragraph, can almost always be traced to a "not fully understood symbol or word" or the nomenclature.
4. Don't bypass even a common English word, if you are not sure what its exact meaning is. Look it up in a good English dictionary and get rid of the uncertainty.
5. Anytime a study difficulty does not resolve, you are looking too late. There will be something earlier that has been missed, or was not understood. This is just too simple.
6. Do the homework assignment promptly after the chapter is completed in lecture, if not before. A simple looking problem can throw you into fits, so start early.
7. A perfectly valid question for any exam or quiz is: "What is the definition of _____? Also give an example of it, tell why it is important or not, and describe how someone could make use it." The professor can fill in the blank with a word or phrase of his choice. So, learn the nomenclature, and be able to use it. This includes any mathematical terms that you may have had in earlier courses. You will also be expected to be able to explain in detail, how a given problem could be solved, or why a certain method works.
8. Lastly, why are you taking this course? Do you want the grade or the ability? Or both? If all you want is the grade, then you may not fair well. After all, Mathematics exists because it can be applied and used. If you study for application, then as you study, you will want to keep asking yourself, "How could I make use of this later on in my career?" And you will work this around until you either figure out how you can, or understand just exactly how significant or insignificant the material is. Once you have the ability to apply and use a subject, then you can do well on exams, AND will have the bonus of having the data available for use later.

Homework assignments:
Due Aug. 30, 2005: p. 15 - 1.1, 1.2, 1.3
Due Sept. 8, 2005: p. 33 – 2.1a, 2.2a, 2.3a, 2.4
Due Sept. 20, 2005: p. 70 - 3.1, 3.2, 3.3