2004/1/17 737PolicySp2004.doc Kosuke Ishilaux

Course: AE 737 Mechanics of Damage Tolerance

Semester: Spring 2004 (Section #21671)

Instructor: Prof. Bert smith

Office: Room 206 WH, Class Room: 209 WH

Grading:

Your grade will be determined from (1) homework (20%), (2) closed book exams (60%), and (3) a final closed book exam (20%). Homework must represent *your own* work, and it must be *neat* and *well organized*. The final exam will be given at the officially scheduled time. Exams will usually have two major components: computational and objective.

In general, the following grading scale will apply:

90-100% A - Distinguished (better than extraordinary) achievement.

80-89% B - Superior (extraordinary) achievement.

70-79% C - Average (ordinary, typical, usual) achievement.

60-69% D - Below average achievement.

0-59% F - Failing work.

Instructional Material:

There is no single source (text) for all of the topics covered in this course. Therefore, the instructor will supply a set of notes (approximately 400 pages of instructional material). To obtain the notes, you must pay \$20.00 to the secretary or student assistant in the AE office. Do this before the second class period.

The major topics covered in this course are as follows (a more detailed list is given on another page):

Introduction

Stress Intensity

Crack Tip Plastic Zone

Fracture Toughness

Residual Strength

Fatigue Crack Growth Rate

Fatigue Crack Propagation

Damage Tolerance

Classroom courtesy:

Please arrive on time so as not to disrupt the class while in progress.

Feel free to ask questions at any time (a dead class is boring for everyone).

Please do not wear hats during class (this is just an old fashioned rule that I like).

Please avoid lengthy private conversations while instructor is conducting class.

No snoring. If your neighbor falls asleep give him/her a shove.

No foul language (except occasionally by the instructor).

No cell phone ringing.

Homework is due at the beginning of the session. Put it on front table when you arrive.

Classroom Instruction:

For most people, much of the learning will take place outside of the classroom, where you can concentrate without interruption, and work at your own pace. I will serve as your consultant, and we will accomplish as much as possible during the 75-minute class sessions. Classroom sessions will generally include questions/answers, overviews, summaries/reviews, and mostly introductions to new material (with occasionally a small amount of nonsense).

Homework:

Print your name (last name first) at the upper right hand corner of the 1st page. Use only one side of the paper.

Start each problem at the top of a new page.

Use only 8.5 by 11 inch paper.

Printed Mathcad screens are not acceptable to be handed in as homework. Sloppy work will not be acceptable.

Don't fold the homework.

Late homework will not be accepted without prior arrangement.

Since homework will be graded, it must represent your own work.

Place your homework on the front desk before class begins.

Curves must be plotted with computer software or plotted by hand and drawn with the use of a French Curve.

Curves must be labeled correctly.