

COURSE: MATH 305-01 Numerical Methods & Matrices Spring 2012
INSTRUCTOR: Dr. TeBeest, Associate Professor
TEXT: "Applied Numerical Analysis", 7th ed. by Gerald & Wheatley ISBN: 9780321133045
OFFICE: AB 2-135 K MWR: 11:15-12:15, Tu: 10:15-11:15 (subj. to change) 762-7926
WEB SITE: <http://www.kettering.edu/~ktebeest/math305/> ktebeest@kettering.edu

ATTENDANCE: Students are expected to: 1) attend each class period, 2) arrive on time, and 3) remain for the full period. Attendance will be taken regularly. Students who arrive late or leave early without the professor's prior permission may receive an unexcused absence. Students may incur a deduction of two percentage points from their course grade for every unexcused absence beyond one.

NOTE: An *excused absence* is a verifiable absence resulting from illness and officially sanctioned Kettering activities (not including fraternity/sorority activities). Verifiable absences are not necessarily excused. A student who anticipates an excused absence should notify the professor in advance. The professor will inform the student if the absence is excused.

A student with three or more unexcused absences may be administratively withdrawn from the course.

HOMEWORK: Homework will be assigned **regularly** and should be completed **promptly**. You are expected to successfully complete each assigned homework problem.

Normally I do not collect homework in this course. I may collect homework on occasion if it appears that students are not keeping up with the assignments. However, exam problems will be similar to class examples and assigned homework problems, so you should work each assigned homework problem immediately. Some homework problems require programming. Assignments will be posted on the "Course Web Site" at the web address above.

**YOU ARE RESPONSIBLE FOR CHECKING THE COURSE WEB SITE
DAILY FOR ASSIGNMENTS AND ANNOUNCEMENTS.**

PROGRAMMING ASSIGNMENTS: Since this is a course in computational mathematics, there will be three **programming assignments**. These will be collected and graded.

1. All programming assignments will be written using Maple as the programming language.
2. All programming assignments will be worked in teams of 4. Exceptions shall be decided by the professor.
3. **These are due at the time and day stated.** Ample time is given to complete each project. Projects submitted late will incur grade reductions according to the following **Penalty Schedule for projects submitted:**

after class begins on the due date	-5 pts
after 8:00 A.M. one day after due date.....	-10 pts
after 8:00 A.M. two days after due date.....	-20 pts
after 8:00 A.M. three days after due date.....	-100%

Projects should be submitted to me personally or slid under my office door. Do not place it in my mailbox or ask someone else to give it to me. I am not responsible for projects that are not submitted to me personally.

4. Each team member will receive the same grade for the project. If the professor suspects that a student has not contributed fairly toward completing a project (examples include the testimony of teammates or a student with several absences), the student may receive a zero grade and the professor may require that student to complete subsequent, and possibly completely different, projects alone. Members from different teams shall not collaborate; doing so will subject the student(s) involved to academic discipline.
5. **See the supplemental handout, "Programming Projects", for additional important rules and policies regarding these programming assignments.**

EXAMS: There will be two (2) class exams. Students shall take the exams at the scheduled times. Students who miss an exam due to an unexcused absence may **NOT** be allowed to make up the exam and may receive a grade of zero for that exam. Only students who miss an exam due to an excused absence may have an opportunity to make up the missed exam; that make-up exam may be given during the 9th week of the semester and may be comprehensive. Each exam applies equally toward the student's course grade. Exams may contain questions pertaining to Maple.

FINAL EXAM: A final exam will be given at the term's end. **Each student shall take the final exam at the scheduled time.** See the supplemental handout, "Comments about Final Exams." This exam may contain questions about Maple.

COURSE GRADING: The value of each item toward the course grade is given by the following weights:

Projects	20%
Exam 1.....	25%
Exam 2.....	25%
Final Exam	30%

That is, let P denote your total project score (in %), E denote your total exam score (in %), and F denote your final exam score (in %). Then your scaled score S will be

$$S = 0.2P + 0.5E + 0.3F. \tag{1}$$

At the term's end, course grades will be assigned as follows (this is the "curve" for this course):

$95 \leq S \leq 100$	A
$91 \leq S < 95$	A-
$88 \leq S < 91$	B+
$85 \leq S < 88$	B
$82 \leq S < 85$	B-
$79 \leq S < 82$	C+
$76 \leq S < 79$	C
$73 \leq S < 76$	C-
$69 \leq S < 73$	D+
$64 \leq S < 69$	D
$S < 64$	F

Value S is **not** rounded. For example, a score $S = 87.9$ receives a letter grade of B since 87.9 is *less* than 88.

Note: the minimum passing grade on any graded item is 64%.

Example: Suppose you have scores of $P = 93\%$ on projects, $E = 84\%$ on exams, and $F = 80\%$ on the final exam. Then your scaled score would be $S = 0.2(93) + 0.5(84) + 0.3(80) = 84.6$ and your course grade would be B-.

Extra Credit: This grading system provides the student with ample opportunity to demonstrate his or her mastery of the material. Consequently there is no means for obtaining "extra credit."

CONTESTING A GRADE: If the student believes that a problem was graded incorrectly, the student may ask the professor to reconsider the grade on a specific problem. However, the request must be made **within one week after the graded item was returned to the class.** The professor might require the student to submit a written request to reconsider the grade and require the student to work the problem correctly. **This is NOT a means for obtaining extra credit.** The grade is still based on the work originally submitted — it is not based on the reworked problem.

DISABILITIES:

The University will make reasonable accommodations for persons with documented disabilities. Such students need to register with the Wellness Center every term they are enrolled in classes. To be assured of having services when they are needed, students should contact the Wellness Center during the first week of each term. Note that it is the student's responsibility to arrange accommodations with each professor. See

- http://www.kettering.edu/studentlife/docs/student_handbook.pdf (p. 26)
- <http://www.kettering.edu/registrar/docs/2011-12UndergraduateCatalog.pdf> (p. 46)

Furthermore, students who require special accommodations due to a documented disability **must make such arrangements with me no later than one week before each exam and no later than two weeks before the final exam.**

AUDITING

Effective Spring 2012:

1. I do not allow students to audit my courses.
 2. Furthermore, a student will not be allowed to change his or her registration in my course to an audit.
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ACADEMIC DISCIPLINE CODE of STUDENT CONDUCT and ACADEMIC INTEGRITY

Kettering University values academic honesty and integrity. Cheating, collusion, misconduct, fabrication, and plagiarism are serious offenses. Each student has a responsibility to understand, accept, and comply with the University's standards of academic conduct as set forth in our statement, "Ethics in the University," and "Academic Integrity" as well as policies established by individual professors. See

http://www.kettering.edu/studentlife/docs/student_handbook.pdf (pp. 41-43)

<http://www.kettering.edu/registrar/docs/2011-12UndergraduateCatalog.pdf> (pp. 25-26)

Furthermore, students found in violation (*e.g.*, cheating on an exam or assignment) may receive a score of zero on that item without recourse for making it up and may receive a failing grade for the course. Incidents of cheating or academic dishonesty may be reported to the Provost's Office for further action.

To maintain and even improve the national standing of Kettering University and the value of a Kettering University degree to you and all GMI/Kettering alumni, the Provost (the ranking academic officer at Kettering University) has instructed the faculty to enforce attendance requirements and standards of academic integrity among Kettering's student body. So be aware that these policies will be enforced.

I have read this policy and its supplements, and I understand what is expected of me.

Print Name: _____

Signed: _____

Date: _____