Mathematics 22 Calculus II Spring 1998

Instructors	Teaching Assistants
Schiesser, 10–13, XS-106, 8-4264, wes1	Moralis, 10,11,13,20, XS-310, 8-4617, dame
Jacobsen, 14–17, XS-218, 8-3747, mhj2	Wright, 22–25, XS-309, 8-3740, kdw2
Napier, 18–21, XS-339, 8-3755, tjn2	Palmieri, 12,18,19,21, XS-305, 8-3738, dup2
Queen, 22–25, XS-333, 8-3752, csq0	Olszewski, 14–17, XS-309, 8-3740, beo2
Stanley, 26–29, XS-335, 8-3723, ljs4	Kyle, 26–29, XS-312, 8-4707, emk6

TEXT

Calculus, Early Transcendentals, Third edition, J. Stewart, Brooks/Cole (Chapters 6–10). Students may find the supplementary text *Discovering Calculus with Maple*, by K. Harris and R. Lopez to be useful, but it is not required.

PREREQUISITES

A grade of C– or better in Mathematics 21, Mathematics 31, or Mathematics 75-76. Students who wish to use a different calculus course to satisfy the prerequisite must obtain approval. Those who received a D+, D, or D– in Mathematics 21 (or an equivalent course) must obtain permission from their advisor and the instructor of their Mathematics 21 (or equivalent) course in order to continue.

ASSIGNMENTS (See lecture and exam schedule)

1. Reading. The assigned section(s) should be read at least twice; once before and once after the corresponding lecture.

2. Homework. The homework problems for each lecture should be completed before the next lecture session. Homework exercises from the previous week (Wednesday-Friday-Monday) will be handed in at the beginning of the lecture on the subsequent Friday. Three to five problems will be graded and the assignment will be checked for completeness. Some (but not all) of the quiz and exam problems will be similar to the homework problems.

3. Written assignments. There will be 3 to 5 written homework assignments; most of which will require the use of the computer algebra system MAPLE. Written assignments are to be handed in at the beginning of the class on the indicated due date. Some of the quiz and exam problems will be based on the mathematical content of the written assignments. For those who are unfamiliar with MAPLE or who would like some review, there will be introductory sessions on the use of MAPLE during the first few weeks. A sign-up sheet for those demonstrations will be posted outside of XS-B001 before Monday, January 19.

4. Late assignments. Material submitted after the beginning of the lecture period and up to 24 hours after that time will be considered one day late, and so forth and 20% will be deducted for each day late. In extraordinary circumstances, there may be no penalty or the student may be excused from the problem set, but the circumstances must be verifiable, fully documented, and acceptable to the instructor.

5. Information. Each assignment must be neat and well-organized and it must include the student's NAME, the student's RECITATION SECTION, the student's I.D. NUMBER, and the DATE.

6. Collaboration. Students are encouraged to discuss the course, homework problems, and written assignments with one another. However, all work submitted in a student's name must be his or her own. Copying is forbidden.

Students may, however, work in **pairs** on the written assignments (MAPLE). The two students must be in the **same recitation section** and they must sign an **Intention to Collaborate Agreement**. The two should together submit **only one** copy of each of the completed assignments. A collaborating team may be dissolved with permission of the instructor.

QUIZZES AND EXAMS

1. Quizzes. There will be regular quizzes based on the homework problems, written assignments, reading assignments, and lectures. They will be given either during lecture or in recitation.

2. 4 O'CLOCK exams. There will be two: **TUESDAY, FEBRUARY 10 at 4:10 p.m. and WEDNESDAY, MARCH 25 at 4:10 p.m.**

3. Final exam. The final exam will be **comprehensive**. Students should not make any commitments (e.g. travel plans) for the exam period until the date is announced.

4. Make-ups. There will be no make-up quizzes. In extraordinary circumstances, a student may be excused from a quiz, but the circumstances must be verifiable, fully

documented, and acceptable to the instructor.
There will be make-up exams for those who miss an exam for a reason that is, again, verifiable, fully documented, and acceptable to the instructor. Requests for make-up exams must be discussed with the instructor at the earliest possible opportunity.

COMPUTERS AND CALCULATORS

1. Campus network. Important announcements will often be sent electronically, so students should check e-mail daily. The written assignments and other course information will appear on the Mathematics 22 Web page.
2. Homework. For the homework exercises marked with an (m) (or labeled with a computer algebra system icon (CAS) or a graph icon in the text) students must use MAPLE (not a calculator). For the homework exercises marked with a (c) (or labeled with a calculator icon in the text), students may use a scientific calculator or a computer. Except for exercises so designated, students are **not** permitted to use computers or calculators to complete homework problems. Of course, students may use calculators or computers to check their work.
3. Quizzes and exams. Calculators are not allowed during exams and quizzes.

ATTENDANCE

Attendance in lecture and recitation is required. Attendance will be taken at each lecture and recitation. Anyone with 3 or more unexcused absences may receive a **Section 3 report**.

GRADING

		COURSE AVERAGE	COURSE GRADE
100 points	Assignments—10 *points for each written assignment, the rest for the problem sets*	90%–100%	A– or A
100 points	Quizzes—*Highest ten, the rest dropped*	80%–89%	B–, B, or B+
200 points	Hour exams—100 *points each*	70%–79%	C–, C, or C+
200 points	Final exam	60%–69%	D–, D, or D+
600 points	TOTAL	0%–59%	F

No.	Date	Section	Homework—(m): Use MAPLE (not a calculator) (c): Use a calculator or a computer.
1	1/14	6.1	§6.1; 3,8,10,16,20,25,38,43(c),52;
2	1/16	6.2	§6.2; 7,11,13,14,19,21,29,34,35,51,53,54,56,60,63
3	1/19	6.3	§6.3; 4,7,8,11,14,18,22,35
4	1/21	6.5	§6.5; 1,2,5,7,13,14
5	1/23	7.1	§7.1; 1,3,4,7,8,12,13,17,19,24,25,31,51,52
6	1/26	7.2	§7.2; 2,3,5,8,15,17,19,21,23,25,27,30,39
7	1/28	7.3	§7.3; 2,3,5,7,8,9,11,12,13,19,21,25,27
8	1/30	7.4	§7.4; 1,3,7,9,16,18,20,23,37,45,54,58,63,64
9	2/2	7.6	§7.6; 1,5,6,8,13,14,15,19,28,31,32,38,39,43,46,47,52,55,60,70,75
10	2/4	7.8	§7.8; 1(c),3(c),17(c),21(c),31(c),32(c)
11	2/6	7.9	§7.9; 1,3,4,7,9,11,17,18,27,28,32,49,51,55,57
12	2/9	Review	**4:00 EXAM # 1 TUESDAY 2/10**
13	2/11	8.1	§8.1; 1,4,5,9,11,15,18,22(m),29,33(c),34(c),36
14	2/13	8.2	§8.2; 2,3,6,9,13,17,20,21,29,33(m)
15	2/18	8.3	§8.3; 1,6,10,13,17(c),19,21
16	2/20	8.4	§8.4; 1,2,5,8,10,11,13,17,18
17	2/23	9.1	§9.1; 2,3,6,7,8,11,13,19,20,21,26
18	2/25	9.2	§9.2; 3,4,5,10,13,15,19,21(m),23,39,40
19	2/27	9.3	§9.3; 2,3,5, 9(m),11(c),13,17(m),19,21,25
20	3/2	9.4	§9.4; 3,7,10,13,15,17,18,20,23,27,28,45,49,52,67,71,78
21	3/4	9.5	§9.5; 1,3,5,7,8,14(m),15,19,21,25,31,33,36,37,48,51(c)
22	3/6	10.1	§10.1; 2,3,6,7,10,11,13,15,19,25,31,34,35
23	3/9	10.1,10.2	§10.1; 39,43(m),45(m),51,54,61 §10.2; 1(m),3(m),7,11,14
24	3/11	10.2	§10.2; 16,19,20,25,29,33,35,37,38,43,44,46,51
25	3/13	10.3	§10.3; 1,3,4,8,9,11,13,14,15,19,24(c),29(c)
26	3/23	Review	**4:00 EXAM # 2 WEDNESDAY 3/25**
27	3/25	10.4	§10.4; 1,5,6,8,11,12,13,16,17,20,25,27,28,29,35(c),37,38
28	3/27	10.5	§10.5; 2,3,5,7,10,13
29	3/30	10.5	§10.5; 16,19,22,25(c),30(c),33
30	4/1	10.6	§10.6; 1,2,4,5,8,9,13,14,15
31	4/3	10.6	§10.6; 8,21,24,25,29,31,33,35,37
32	4/6	10.7	§10.7; 3,5,6,9,10,12,15,18,20,21,24,25,27,30,33,35,36
33	4/8	10.8	§10.8; 1,2,3,5,7,10,13,16,18
34	4/15	10.8	§10.8; 24,27,28,30(m),33
35	4/17	10.9	§10.9; 1,2,3,6,8,9,11,12,14,16,17,19(m)
36	4/20	10.9	§10.9; 21,24,25(c),26(c),30,35,36
37	4/22	10.10	§10.10; 1,2,3,4,7,9,10,12,17,20,23,25
38	4/24	10.10	§10.10; 28(m),31(c),33,34,36,37,39,41,42,45,49
39	4/27	10.12	§10.12; 1(m),4(m),7(m),9(m),12(m),14(m),16(m)
40	4/29	10.12	§10.12; 27(m), 29,35
41	5/1	Review	
42	5/4	Review	**FINAL EXAMS 5/7 – 5/15**