Mathematics 22 Calculus II Spring 1999

TEXT

Calculus, Early Transcendentals, Third edition, J. Stewart, Brooks/Cole.

PREREQUISITES

A grade of C– or better in Mathematics 21, 31, or 75–76.

ASSIGNMENTS (See lecture and exam schedule on page 3)

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

2. Homework. The problems from each lecture should be completed before the next lecture. Problems from the Wednesday, Friday, and Monday lectures will be handed in at the beginning of the lecture on the subsequent Friday. Three problems will be graded for correctness and the rest checked for completeness. Some (not all) of the quiz and exam problems will be similar to the homework problems.

3. Written assignments. There will be 3 written homework assignments (not on this information sheet). They will require the use of the computer algebra system MAPLE. Some of the quiz and exam problems will be based on the mathematical content of the written assignments. Those not familiar with MAPLE should attend one of the following MAPLE introductory sessions in **Grace 28:**

Thursday, 1/21, 12:10–1, 1:10–2, 2:10–3 and Friday, 1/22: 10:10–11

4. Late assignments. Problem sets will be due at the beginning of the lecture period. No late problem sets will be accepted. 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. Assignments must be neat and well-organized and must include the student's NAME and RECITATION SECTION, and the DATE.

6. Collaboration. Students are encouraged to discuss the course, homework problems, and written assignments with one another; but 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 lecture** 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 in lecture or recitation.

2. 4 O'CLOCK exams. Thursday, February 18 and Thursday, March 25.

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. Network. Please check e-mail daily. Written assignments and other information will appear on the Mathematics 22 web page (http://www.lehigh.edu/~tjn2/22sp99.html).

2. Homework. For problems 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 problems marked with a (c) (or labeled with a calculator icon), students may use a 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. Anyone with 3 or more unexcused absences may receive a **Section 3 report**.

GRADING

		COURSE AVERAGE	COURSE GRADE
70 points	Homework		
30 points	Written assignments		
100 points	Quizzes—*Highest ten out of twelve or more quizzes*	90%–100%	A– or A
200 points	Hour exams—100 *points each*	80%–89%	B–, B, or B+
200 points	Final exam	70%–79%	C–, C, or C+
600 points	TOTAL	60%–69%	D–, D, or D+
		0%–59%	F

No.	Date	Section	Homework—(m): Use MAPLE (not a calculator) (c): Use a calculator or a computer.
1	1/13	6.1	§6.1; 3,8,10,16,20,25,38,52;
2	1/15	6.2	§6.2; 7,11,13,14,19,21,29,34,35,51,53,54,56,60,63
3	1/18	6.3	§6.3; 4,7,8,11,14,18,22,35
4	1/20	6.5	§6.5; 1,2,5,7,13,14
5	1/22	7.1	§7.1; 1,3,4,7,8,12,13,17,19,24,25,31,51,52
6	1/25	7.2	§7.2; 2,3,5,8,15,17,19,21,23,25,27,30,39
7	1/27	7.3	§7.3; 2,3,5,7,8,9,11,12,13,19,21,25,27
8	1/29	7.4, 7.5	§7.4; 1,3,7,9,16,18,20,23,37,45,54,58 §7.5; 1,2,7,15,21
9	2/1	7.6	§7.6; 1,5,6,8,13,14,15,19,28,31,32,34,38,39,43,46,47,52,55,60,70,75
10	2/3	7.8	§7.8; 1(c),3(c),17(c),21(c),31(c),32(c)
11	2/5	7.9	§7.9; 1,3,4,7,9,11,17,18,27,28,32
12	2/10	7.9,8.1	§7.9; 43,49,51,55,57 8.1; 1,4,5,9,11,15,18
13	2/12	8.1	§8.1; 22(m),23,26,29,33(c),34(c),36
14	2/15	8.2	§8.2; 2,3,6,9,13,17,20,21,29,33(m)
15	2/17	Review	**4:00 EXAM # 1 THURSDAY 1/18**
16	2/19	8.3	§8.3; 1,6,10,13,17(c),19,21
17	2/22	8.4	§8.4; 1,2,5,8,10,11,13,17,18
18	2/24	9.1	§9.1; 2,3,6,7,8,11,13,19,20,21,26
19	2/26	9.2	§9.2; 3,4,5,10,13,15,19(m),21(m),23,39,40
20	3/1	9.3	§9.3; 2,3,5, 9(m),11(c),13,17(m),19,21,25
21	3/3	9.4	§9.4; 3,7,10,13,15,17,18,20,23,27,28,45,49,52,67,71,78
22	3/5	9.5	§9.5; 1,3,5,7,8,14(m),15,19,21,25,31,33,36,37,48,51(c)
23	3/15	10.1	§10.1; 2,3,6,7,10,11,13,15,19,25,31,34,35
24	3/17	10.1,10.2	§10.1; 39,43(m),45(m),51,54,61 §10.2; 1(m),3(m),7,11,14
25	3/19	10.2	§10.2; 16,19,20,25,29,33,35,37,38,43,44,46,51
26	3/22	10.3	§10.3; 1,3,4,8,9,11,13,14,15,19,24(c),29(c)
27	3/24	Review	**4:00 EXAM # 2 THURSDAY 3/25**
28	3/26	10.4	§10.4; 1,5,6,8,11,12,13,16,17,20,25,27,28,29,35(c),37,38
29	3/29	10.5	§10.5; 2,3,5,7,10,13
30	3/31	10.5	§10.5; 16,19,22,25(c),30(c),33
31	4/7	10.6	§10.6; 1,2,4,5,8,9,13,14,15
32	4/9	10.6	§10.6; 8,21,24,25,29,31,33,35,37
33	4/12	10.7	§10.7; 3,5,6,9,10,12,15,18,20,21,24,25,27,30,33,35,36
34	4/14	10.8	§10.8; 1,2,3,5,7,10,13,16,18
35	4/16	10.8	§10.8; 24,27,28,30(m),33
36	4/19	10.9	§10.9; 1,2,3,6,8,9,11,12,14,16,17,19(m)
37	4/21	10.9	§10.9; 21,24,25(c),26(c),30,35,36
38	4/23	10.10	§10.10; 1,2,3,4,7,9,10,12,17,20,23,25
39	4/26	10.10	§10.10; 28(m),31(c),33,34,36,37(c),39(c),41,42,45,49
40	4/28	10.12	§10.12; 1(m),4(m),7(m),9(m),12(m),14(m),16(m),27(m),29,35
41	4/30	Review	
42	5/3	Review	**FINAL EXAMS 5/6 – 5/14**