

**MAC 2313
CALCULUS 3
FALL SEMESTER 2009**

COURSE DESCRIPTION

82627 – MAC 2313-001. Class meets at 16:00–17:10 MWF in BU 303.

URL: <http://math.fau.edu/ford/syllabi/F09/MAC2313/>

Instructor. Dr. Timothy Ford, Professor

Office: SE 216

Phone: 561-297-3348

Office hours: MWF 14:30–15:45, and by appointment.

Email: ford@fau.edu

Prerequisite. Calculus 2 with a grade of C or higher.

Textbook. *Thomas' Calculus, Early Transcendentals*, eleventh edition (Thomas Series). by George B. Thomas, Maurice D. Weir, Joel Hass, Frank R. Giordano, Publisher: Addison Wesley; 11 edition (February 26, 2005), ISBN-10: 0-321-19800X

Course content. Topics will be selected from The last five chapters of the textbook.

Homework. To effectively learn Calculus, it is necessary to have a daily study routine. This routine should involve reading the material as presented in the text, reviewing class notes, and working problems. The problems studied should include (but not be limited to) those assigned by the instructor. Homework assignments are collected daily, graded and returned on the following class day. A significant portion of each class session is devoted to answering questions from the assignments. The exams consist of problems similar to the homework problems. The homework exercises are listed at the URL mentioned above.

Test policy. The following are not allowed during exams or quizzes: calculator, cell phone, book, notes, electronic gadget, restroom visit, cheating.

Quizzes. On weeks when no midterm is scheduled, there will be a short quiz. The quiz will usually be on Friday. The quiz will last about 10 to 15 minutes.

Exams. There will be 3 midterm exams. Tentative dates of the exams are September 18, October 12, November 6, and December 6. The exact dates of the exams will be announced at least 1 week in advance. Only under extreme circumstances will makeup exams be given.

Final Exam. A comprehensive final examination will be given during the final exam week. The time of this exam is set by the university and is Sunday, December 6, 2009, 16:00–18:30. The location has not yet been announced.

Grades. The final grade will be based on the homework grade, the average of the quiz grades and the four exam grades using this relative weighting scheme:

homework grade:	10%
quiz grade:	15%
midterm one:	15%
midterm two:	15%
midterm three:	15%
midterm fourq:	30%

Plus or minus grades are not assigned. The grading scale is based on the number of points accumulated.

points	grade
at least 90%	A
at least 80% but less than 90%	B
at least 70% but less than 80%	C
at least 60% but less than 70%	D
less than 60%	F

ACADEMIC CALENDAR

Calendar. The following are some important dates.

August	24	classes begin
	28	last day to add
September	7	Labor Day, no class
	4	last day to drop without W
	18	Test 1
October	12	Test 2
	16	last day to drop with W
November	6	Test 3
	11	Veteran's Day, no classes
	26–29	Thanksgiving recess, no classes
December	2	last day of class
	6	Final exam, 16:00 - 18:30

ASSIGNMENTS FROM THE TEXT

Exam 1. September 18, covers sections 12.1–12.6 and 13.1–13.5.

Section	page	exercises from the text
12.1	836	3, 5, 10, 11, 15, 20, 23, 25, 32, 37, 46, 50
12.2	844	5, 12, 13, 18, 21, 31
12.3	854	1, 8, 17
12.4	862	3, 17, 29, 30
12.5	871	8, 10, 23, 27, 32, 36, 39, 59
12.6	881	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
13.1	900	1, 10, 13, 24, 25, 34
13.3	919	1 – 8
13.4	926	Find T , N only: 1, 7 (b, c), 8 (a), 11, 12, 13
13.5	933	Find B only: 3, 4, 5

Exam 2. October 12, covers sections 14.1–14.8.

Section	page	exercises from the text
14.1	957	7 – 12, 21, 22, 33, 39
14.2	966	15, 17, 19, 26, 33, 38, 39, 41
14.3	978	11, 12, 18, 27, 28, 29, 30, 31, 46, 47
14.4	987	3, 4, 6, 7, 9, 11, 26, 27, 30, 31, 36, 37
14.5	997	3, 7, 8, 10, 11, 13, 16, 20, 21, 25
14.6	1008	8, 11, 17, 18, 19, 20, 26, 31, 32, 38, 41
14.7	1018	5, 8, 9, 12, 17, 23, 24, 31, 34
14.8	1031	2, 3, 4, 5, 8, 13, 15

Exam 3. November 6, covers sections 15.1 – 15.6.

Section	page	exercises from the text
15.1	1063	4, 5, 6, 7, 10, 11, 16, 31, 32, 35, 39, 40, 43, 44, 46, 47, 53, 54
15.2	1073	3, 6, 8, 9, 11, 14, 21, 24, 26, 32, 33
15.3	1081	6, 12, 13, 16, 18, 19, 20, 21
15.4	1090	22, 24, 25, 26, 27, 30, 31, 33, 36
15.6	1108	16, 17, 19, 33, 34, 40, 41, 43, 44, 51, 52, 54, 59, 61

Exam 4. December 6, covers sections 16.1–16.8.

Section	page	exercises from the text
16.1	1132	10, 13, 15, 16, 19, 20, 21, 22
16.2	1142	12, 15, 18, 19, 29, 37, 41
16.3	1152	1, 3, 8, 9, 15, 16, 20, 21
16.4	1163	7, 8, 9, 11, 15, 17, 20, 22
16.5	1174	2, 3, 5, 7, 17, 25, 26, 27, 28
16.7	1193	3, 4, 5, 6, 7, 9, 10
16.8	1204	7, 8, 9, 10, 11, 12, 13, 14

Class Schedule. The weekly class schedule.

Week	Sections of text
Aug 24 – 28	12.1, 12.2, 12.3
Aug 31 – Sep 4	12.4, 12.5, 12.6
Sep 9 – 11	13.1, 13.2
Sep 14 – 18	13.3, 13.4, 13.5, T1
Sep 21 – 25	14.1, 14.2, 14.3
Sep 28 – Oct 2	14.4, 14.5, 14.6
Oct 5 – 9	14.7, 14.8
Oct 12 – 16	T2, 15.1, 15.2
Oct 19 – 23	15.2, 15.3, 15.4
Oct 26 – 30	15.5, 15.6
Nov 2 – 6	15.7, T3
Nov 9 – 13	16.1, 16.2
Nov 16 – 20	16.3, 16.4, 16.5
Nov 23 – 25	16.5, 16.6, 16.7
Nov 30 – Dec 2	16.7, 16.8, T4