

University of Central Florida
Department of Mathematics

Fall 2006

Course:	MAC 2313. 0003, <i>Calculus III</i>
Instructor:	Mr. Stefan C. Mancas
Text Book:	Stewart " <i>Calculus</i> ", 5 th Edition by Stewart
Course Content:	Chapters 13, 14, 15, 16, 17
Class Location / Times:	MAP 204, 7:30–9:20 TR
Office:	MAP 350 F
Office Hours:	11:00–12:00 MWF
MathLab Hour:	10:00–11:00 R
Phone:	823-6535
Web Page:	http://pegasus.cc.ucf.edu/~smancas/
Email:	smancas@yahoo.com

ATTENDANCE: It is mandatory.

HOMEWORK: It is very important that you solve the assigned homework problems. Do not fall behind because it will be almost impossible to catch up.

EXAMS: There will be *four* in class exams. The lowest score from the four exams will be dropped. Also there will be one comprehensive *final* exam. Make-up exams will be given only for valid reasons which must be officially documented. Graphing calculators are *not* allowed to be used on exams.

GRADING POLICY: $\text{Grade} = 65 \frac{\sum_{i=1}^3 \text{Test}_i}{300} + 35 \frac{\text{Final}}{100}$

	90–100 p.	A
	80–89 p.	B
GRADE SCALE:	70–79 p.	C
	60–69 p.	D
	0–59 p.	F

Note: There is no NC grade, no +, - grade and I can not assign S,U,W or I.

MathLab: In addition to my office hours the MathLab room (MAP 113) is a very good help/tutorial facility for this course and I would strongly

recommend you to make use of it. For operating hours consult the web:
<http://gauss.math.ucf.edu/~mathlab/>

Homework Problems:

Ch.13 Vectors and the Geometry of Space

13.1	7, 9, 11, 13, 17, 21, 23, 25, 27, 29, 31
13.2	9, 15, 19, 21, 23, 25, 31, 37
13.3	1, 5, 7, 9, 13, 17, 19, 21, 23(a, c), 27, 29, 31, 33, 37 39, 43, 47, 51
13.4	3, 5, 7, 9, 11, 13, 15, 23, 27, 29, 31, 33, 39, 41
13.5	3, 5, 7, 11, 13, 15, 17, 19, 21, 23, 25, 29, 33, 35, 37, 39 41, 43, 47, 51, 53, 55, 59, 61, 65, 67
13.6	3, 5, 7, 11, 13, 15, 17, 19, 21-28, 29, 31, 33, 35, 43, 45
13.7	5, 7, 11, 15, 17, 19, 21, 23, 25, 27, 29, 31, 35, 39, 41 43, 47, 53, 55, 57, 59

Ch.14 Vector Functions

14.1	1, 3, 5, 7, 11, 17, 19-24, 25, 35
14.2	3, 7, 11, 13, 15, 17, 19, 21, 25, 35, 37
14.3	1, 5, 11, 13, 15, 19, 23, 27, 39
14.4	5, 7, 11, 13, 15, 17, 19, 31, 33

Ch.15 Partial Derivatives

15.1	7, 9, 15, 19, 30, 39, 43, 59, 61
15.2	7, 11, 15, 19, 23, 31, 33, 35
15.3	13, 17, 21, 29, 37, 41, 43, 45, 47, 51, 59, 61
15.4	3, 5, 13, 15, 25, 31
15.5	3, 5, 9, 11, 17, 19, 23, 25, 27, 33, 43, 45
15.6	5, 9, 13, 17, 23, 25, 29, 31, 41, 43, 53
15.7	3, 7, 11, 13, 17, 29, 31, 33, 39, 43
15.8	5, 9, 13, 17, 19

Ch.16 Multiple Integrals

16.1	1, 2, 4, 11-14, 17
16.2	1-29 odd, 33
16.3	1-28 odd, 43-50, 57
16.4	1-6, 9-20, 21-31 odd
16.5	3-10 odd, 15, 17
16.6	1-13 odd
16.7	1, 3-6, 7-19 odd, 25-27, 31, 32, 37, 39, 40
16.8	1-4, 7-21 odd, 33-36
16.9	1-10, 11, 13, 15, 19, 21, 23

Ch.17 Vector Calculus

17.1	1, 3, 5, 7, 11-18, 21-24, 29-33
17.2	1-15 odd, 17, 19-22, 35-37
17.3	3-10, 13-23 odd, 27, 29-33
17.4	1-4, 7-16, 21-23
17.5	1-17 odd, 23-29, 36
17.6	1-4, 11-16, 17-23 odd, 31-45 odd
17.7	5-27 odd,
17.8	2-10, 15, 17, 19, 20
17.9	3-6, 7-15 odd, 23-28
17.10	Read Summary on page 1170

Class Schedule:

<i>T August 22</i>	13.1, 13.2
<i>R August 24</i>	13.3, 13.4
<i>T August 29</i>	13.5
<i>R August 31</i>	13.6
<i>T September 5</i>	13.7
<i>R September 7</i>	14.1, 14.2
<i>T September 12</i>	Review 1, Exam 1
<i>R September 14</i>	14.3
<i>T September 19</i>	14.4
<i>R September 21</i>	15.1, 15.2
<i>T September 26</i>	15.3, 15.4
<i>R September 28</i>	15.4, 15.5
<i>T October 3</i>	15.5, 15.6
<i>R October 5</i>	Review 2, Exam 2
<i>T October 10</i>	15.7
<i>R October 12</i>	15.8
<i>T October 17</i>	16.1, 16.2
<i>R October 19</i>	16.3, 16.4
<i>T October 24</i>	16.4, 16.5
<i>R October 26</i>	16.5, 16.6

T October 31 **Review 3, Exam 3**
R November 2 16.7, 16.8

T November 7 17.1, 17.2
R November 9 17.2, 17.3

T November 14 17.3, 17.4
R November 16 17.4, 17.5

T November 21 17.5, 17.6
R November 23 **Review 4, Exam 4**

T November 28 17.7, 17.8
R November 30 17.9, 17.10

R December 7 **Final Exam 7:00 am**