

University of Central Florida
Department of Mathematics

Summer 2005

Course:	MAC 2313. C01, <i>Calculus III</i>
Instructor:	Mr. Mancas
Text Book:	Stewart ' <i>Calculus</i> ', 5 th Edition
Course Content:	Chapters 13, 14, 15, 16, 17
Class Times:	MAP 406, 1:00–1:50 p.m., MTWRF
Office:	MAP 350 F
Office Hours:	12:00–12:50 p.m. MWF
Phone:	823-6535
Web Page:	http://pegasus.cc.ucf.edu/~smancas/
Email:	smancas@yahoo.com

Course Policy: Welcome to *Calculus III*. This is a 12 week course which will cover 5 chapters during Summer C, so it is imperative for you to attend all the classes and keep up with the assigned homeworks. For each chapter you have a list of problems which you must solve. These problems will constitute considerable part of your exams (at least 50%). There will be *four* in class exams during the normal class hours, each will be worth 100 points. The last one will be considered as a final. If you miss an exam, it is your responsibility to immediately contact me. Make-up exams are at my discretion and could be more difficult. They will be given only for valid reasons which must be officially documented. Graphing calculators are **NOT** allowed in this class. Each Thursday we will have a problem session class during which we will solve homework problems, answer questions and review the material that was covered it that week. At the end of each chapter make sure you look at the review problems, exercises, the concept check and the true-false quiz.

Grade scale:

180–200 p.	A
160–179 p.	B
140–159 p.	C
120–139 p.	D
0–139 p.	F

Late Registration/Add Drop: May 20th

Withdrawal Deadline: June 24th

Summer Holidays: May 30th and July 4th

Last Day of Classes: August 5th

MathLab: In addition to my office hours the MathLab room (MAP 113) is wonderfully help/tutorial facility for this course and I would strongly recommend you to make use of it. For the schedule look at their website <http://gauss.math.ucf.edu/~mathlab/>

Tests:

<i>Test 1</i>	June 3 rd	Ch. 13, Ch. 14
<i>Test 2</i>	June 24 th	Ch. 14, Ch. 15
<i>Test 3</i>	July 15 th	Ch. 16
<i>Test 4</i>	August 5 th	Ch. 17

Homework Problems:

Ch.13 Vectors and the Geometry of Space

<i>13.1</i>	7, 9, 11, 13, 17, 21, 23, 25, 27, 29, 31
<i>13.2</i>	9, 15, 19, 21, 23, 25, 31, 37
<i>13.3</i>	1, 5, 7, 9, 13, 17, 19, 21, 23(a, c), 27, 29, 31, 33, 37 39, 43, 47, 51
<i>13.4</i>	3, 5, 7, 9, 11, 13, 15, 23, 27, 29, 31, 33, 39, 41
<i>13.5</i>	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
<i>13.6</i>	3, 5, 7, 11, 13, 15, 17, 19, 21-28, 29, 31, 33, 35, 43, 45
<i>13.7</i>	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

<i>14.1</i>	1, 3, 5, 7, 11, 17, 19-24, 25, 35
<i>14.2</i>	3, 7, 11, 13, 15, 17, 19, 21, 25, 35, 37
<i>14.3</i>	1, 5, 11, 13, 15, 19, 23, 27, 39
<i>14.4</i>	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

Weekly Schedule:

Week 1 – Week 3	All Ch.13 and beginning of Ch.14
Week 4 – Week 6	Rest of Ch.14 and All Ch.15
Week 7 – Week 9	All Ch.16
Week 10 – Week 12	All Ch.17