

# MTH 533

# Syllabus

# Spring 2006

**Instructor:** James Angelos

**Office:** Pearce 214

**Phone:** 774-3596

**Office Hours:** 9:00–10:00 MTWR, 2:00–3:00 WF or by appointment

**Textbook:** *Introduction to Analysis*, W. Wade, Prentice Hall, Third Edition, 2004

Welcome to MTH 533, Advanced Calculus II. This course is the continuation of MTH 532. In this course we extend the concepts of single variable analysis to functions of several variables.

## Grading Policy

There will be 2 exams and a final. The final exam will be comprehensive in nature. In cases of extreme emergency, serious illness, or university related activity, when I have been notified in advance of the scheduled exam day. In these cases the student will be allowed to make up the missed exam. I will give these makeup exams on Friday, April 28 only. In addition, every week you will be required to turn in a homework assignment based on the problem assignments that follow. Each of these assignments is worth 15 points each. *Absolutely no late homework will be accepted for any reason.* I will drop your 2 lowest homework scores.

## Grading Scale<sup>1</sup>

Point Total			Grading Scale (% of total)					
9	Homework	135	100–93	A	82–80	B-	69–66	D+
2	Exams	200	92–90	A-	79–76	C+	65–63	D
1	Final Exam	<u>100</u>	89–86	B+	75–73	C	62–60	D-
	Total	435	85–83	B	72–70	C-	59 ↓	E

## Exam Dates

Exam 1: Thursday, February 16 Chapters 8,9,11  
Exam 2: Thursday, April 6 Chapters 12,13  
Final Exam: Thursday, May 4 Comprehensive  
12:00–1:50 P.M.

**CMU provides students with disabilities reasonable accomodation to participate in educational programs, activities, or services. Students with disabilities requiring accommodations to participate in class activities or meet course requirements should contact me as early as possible**

---

<sup>1</sup>Graduate students must earn a C to pass.

**Material to be covered and assignments****Chapter 8**

- §8.1 p. 234 (1,3,5,7,9)  
 §8.2 pp. 240–242 (1,2,3,7,8,9\*)  
 §8.3 pp. 248–248 (1,2,3)  
 §8.4 pp. 254–255 (1,2,4,5,7,8\*)

**Chapter 9**

- §9.1 pp. 262–263 (1,2,3,5,7,8,9\*)  
 §9.2 pp. 269–270 (1,2,3,4\*,5,7\*)  
 §9.3 pp. 275–277 (1,2,3,5,6,10\*)  
 §9.4 p. 279 (1,2,3,4,6,7\*)

**Chapter 11**

- §11.1 pp. 329–332 (1,3,4,5,7\*)  
 §11.2 pp. 337–339 (1,3,4,6,8,9,10,11\*)  
 §11.3 pp. 346–348 (1,2,3,4,5,7,8\*,10,11)  
 §11.4 pp. 350–352 (1,3,5,7\*,10,14\*)  
 §11.5 pp. 357–358 (1,2(abd),3,6,7,8\*)  
 §11.6 pp. 367–369 (1(acd),2,3(acd),5,7,9\*)  
 §11.7 pp. 378–380 (1(acd),2(ac),3(bcd),4,5,7)

**Chapter 12**

- §12.1 pp. 392–394 (1,2,4,5,7\*)  
 §12.2 pp.405–406 (1,2,3,5\*,8,10\*)  
 §12.3 pp. 417–420 (1,2,3(abd),4(bcd),6,8,9\*)  
 §12.4 pp. 430–432 (1,2,3(ac),4,5(cd),\*,10)

**Chapter 13**

- §13.1 pp. 459–461 (1,2,3,5(ad),6(abd),9,10,11\*)  
 §13.2 pp. 466–468 (1(acd),2(abc),3(acd),7)  
 §13.3 pp. 477–478 (1,2,3,4,8)  
 §13.4 pp. 486–487 (1,2(acd),3(abd),6\*,7\*)  
 §13.5 pp. 494–496 (1,2,3(acd),4(ab),5,7\*,8,9\*)  
 §13.6 pp. 502–505 (1,2(acd),3(acd),4(ac),6\*,8\*)

**Chapter 14**

- §14.1 pp. 511–512 (1,2,4,6\*)  
 §14.2 pp. 517–519 (1,2,3)  
 §14.3 pp. 525–526 (1,2,3,6\*)  
 §14.4 pp. 530–532 (1,2,5\*)

\*-required for graduate students