

# **CALCULUS II MATH 152      SPRING SEMESTER 2006**

## **SYLLABUS      Mrs. Bonny Tighe- Senior Instructor**

WEEK	DATE	SECTIONS COVERED
1 –	M 1/30	Introduction
	W 2/1	7.1 Inverse Functions 7.2 Exponential Functions
	F 2/3	7.3 Logarithmic Functions
2 –	M 2/6	7.4 Derivative of Logs
	W 2/8	<b>QUIZ 1 on 7.1 - 7.3</b>
	F 2/10	7.5 Inverse Trig Functions 7.6 Hyperbolic Functions
3 –	M 2/13	7.7 L'Hospital's Rule
	W 2/15	<b>QUIZ 2 on 7.4 - 7.6</b>
	F 2/17	8.1 Integration by parts
4 –	M 2/20	8.2 Trig Integrals
	W 2/22	<b>QUIZ 3 on 7.7 - 8.1</b>
	F 2/24	8.3 Trig Substitution
5 –	M 2/27	8.4 Partial Fractions
	W 3/1	<b><u>EXAM I on 7.1 - 8.3</u></b>
	F 3/3	8.5 Strategies for integration
6 –	M 3/6	8.6 Using Tables 8.7 Approximate Integration
	W 3/8	<b>QUIZ 4 on 8.4 - 8.5</b>
	F 3/10	8.8 Improper Integrals
7 –	M 3/13	9.1 Arc Length 9.2 Surface Area
	W 3/15	<b>QUIZ 5 on 8.6 - 8.8</b>
	F 3/17	12.1 Sequences 12.2 Series
8 –	M 3/20-3/24	SPRING BREAK
9 –	M 3/27	12.3 Integral Test
	W 3/29	<b>QUIZ 6 on 9.1 - 12.2</b>
	F 3/31	12.4 Comparison Tests
10 –	M 4/3	12.5 Alternating Series
	W 4/5	<b><u>EXAM II on 8.4-12.4</u></b>
	F 4/7	12.6 Ratio and Root Tests
11 –	M 4/10	12.7 Strategy for testing Series
	W 4/12	<b>QUIZ 7 on 12.5-12.6</b>
	F 4/14	12.8 Power Series
12 –	M 4/17	12.9 Representations of Power Series
	W 4/19	<b>QUIZ 8 on 12.7 - 12.8</b>
	F 4/21	12.10 Taylor and Maclaurin Series
13 –	M 4/24	12.11 Binomial Series
	W 4/26	<b>QUIZ 9 on 12.9-12.10</b>
	F 4/28	11.1 Parametric Equations 11.2 Calculus with parametric
14 –	M 5/1	11.3 Polar Coordinates
	W 5/3	<b>QUIZ 10 on 12.11 – 11.2</b>
	F 5/5	11.4 Areas and Lengths
15 –	M 5/8	11.5 Conic Sections
	W 5/10	<b><u>EXAM III on 12.5-11.4</u></b>
	F 5/12	
16 –	M 5/15	LAST DAY – REVIEW

**FINAL EXAM TO BE ANNOUNCED**

## HOMWORK ASSIGNMENTS

- #1 due Wednesday 2/8    7.1 # 6,14,20,26,32,38,40,44  
7.2 # 10,16,18,26,30,38,42,48,50,52,56,64,74,78,80  
7.3 # 8,12,,16,24,32,38,40,44,48,52,56,66,68,70
- #2 due Wednesday 2/15    7.4 # 10,14,18,24,28,30,34,36,40,42,50,58,68,74,80  
7.5 # 2,8,10,18,24,26,34,36,38,46,50,62,68,72  
7.6 # 6,10,16,20,34,38,42,58,60
- #3 due Wednesday 2/22    7.7# 4,6,12,16,22,26,30,36,38,40,52,58,62  
8.1# 6,16,18,22,26,32,36,40,46,52,58
- #4 due Wednesday 3/1    8.2 # 2,6,12,14,18,24,28,34,40,46,54,60  
8.3 # 4,10,12,16,20,24,28,30,40
- #5 due Wednesday 3/8    8.4 # 4,12,16,20,24,28,34,40,44,54,58,60  
8.5 # 4,10,14,18,22,34,38,42,46,48,56,66,68,74
- #6 due Wednesday 3/15    8.6 # 2,6,10,16,18,20,24,32  
8.7 # 6,12,16,20,26,28,30,36,44,48  
8.8 # 2,6,10,12,18,26,32,40,52,58
- #7 due Wednesday 3/29    9.1 # 4,8,12,14,18,24,34  
9.2 # 2,6,10,14,18,26  
12.1 # 610,12,16,20,24,32,38,40,48,56,60  
12.2 # 8,12,14,18,20,26,30,34,38,44,
- #8 due Wednesday 4/5    12.3 # 6,8,12,14,18,20,22,24,28,32  
12.4 # 6,8,12,16,18,22,26,30,34,36
- # 9 due Wednesday 4/12    12.5 # 2,4,6,10,14,16,18,20,24,30,32  
12.6 # 4,8,12,16,18,20,22,26,28
- #10 due Wednesday 4/19    12.7 # 4,6,8,10,16,20,24,28,30,34  
12.8 # 4,8,10,12,14,18,24,28,30
- #11 due Wednesday 4/26    12.9 # 6,8,10,12,16,26,32  
12.10 # 4,6,8,12,14,16,26,30,36,42,46,48,52,60
- #12 due Wednesday 5/3    12.11# 2,4,6,12,14,16,18  
11.1# 2,4,8,10,12,14,16,20,22,24,28  
11.2# 2,6,8,12,16,18,26,30,38,44,58,60
- # 13 due Wednesday 5/10    11.3# 2,4,6,10,14,18,22,26,28,30,34,42,54,56,62,68  
11.4# 4,8,14,16,20,24,30,32,38,46
- #14 due Monday 5/15    11.5# 4,6,8,14,16,18,20,24,26,32,36,40, 42, 46,50

## CALCULUS II

## MATH 152

### SPRING SESSION 2006

Class Time       Lectures: MWF from 8:45 am to 9:50 am in MP 106  
                      Section 201 Discussion on Friday 11-11:50 in MP 010  
                      Section 202 Discussion on Friday 1-1:50 in MP 010

Instructor:       Mrs. Bonny Tighe  
Office – M/P 425   Office phone 410-455-2425  
e-mail [tighe@math.umbc.edu](mailto:tighe@math.umbc.edu)  
Office Hours   MWF 3:45-5:30 pm

Text:                Calculus. By Stewart, Fifth Edition, Brooks/Cole Publishing, 2003

Homework will be due at the beginning of class each Wednesday.

Testing and grading: The regular 90%-80%-70%-60% grading method will be used

Homework - there will be 10 (out of 13) worth 10 points each	= 100 points
Quizzes – there will be 8 (out of 10) worth 25 points each	= 200 points
Exams – there will be three exams worth 100 points each	= 300 points
Final Exam    150 points	= 150 points

TOTAL POINTS       =    750 points

**ATTENDANCE is crucial to success in this class.** There will be no make-up quizzes and make-up exams will be given at my discretion and provided I have been notified the morning of the test and provided there is sufficient reason for having missed class. There is no excuse for being habitually late to class. It disturbs the instructor as well as the other students and it will not be tolerated. The easiest way to reach me is through my email address given above.

There will be a quiz at the beginning of each Wednesday class except on exam days and the best 8 will be averaged.

There is no particular technology required for this class. No calculators will be allowed on the quizzes or exams, but they are helpful when attempting homework and for comprehension.

**By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.**