

**MAT187H1S CALCULUS II: Course Information****January 9, 2012**

MAT187H1S is the direct continuation of MAT186H1F, and uses the same book. We will do most of Chapters 7, 8, 9 and 10, plus selected sections of Chapters 12 and 13.

**Section Instructors:** By now you should be scheduled into one of the following Sections:

LEC0101	Burbulla, D.	LEC0103	Rayan, S.
LEC0102	Tyros, K.	LEC0104	Milgram, P.

**Textbook:** The textbook for this course is Anton, Bivens & Davis's *Calculus*, Early Transcendentals Version, 9th edition, with WileyPLUS. This package is available in the textbook store in two options: the WileyPLUS code alone, no printed text; or, Binder Ready Version of the textbook with WileyPLUS. In either option, WileyPLUS includes an electronic version of the textbook and other online resources.

**Marking Scheme:** WileyPLUS Assignments: 10%; Test 1: 20%; Test 2: 20%; Exam: 50%

**Assignments:** We will make use of the WileyPLUS Assignments. The url for the course website is <http://edugen.wileyplus.com/edugen/class/cls/249122> If you registered for MAT186H1F you will automatically have access to this MAT187H1S WileyPlus website. Otherwise, to register you will need an access code and your email. Please use your UTOR email, that is `your.name@utoronto.ca`

**Homework:** The assigned questions from the WileyPlus Assignments are listed on the reverse, along with some additional problems. You can get help on these questions in tutorial from your TA.

**Tutorials:** The first day of tutorials is Friday, Jan 13th; the last day of tutorials is Friday, April 13th. (No tutorials on Friday, April 6th.)

**Tests:** 100-minute (or more) term tests are scheduled for Thursday, February 2nd and Thursday, March 15th, during 6:00-8:00 PM. Locations will be announced during the term.

**Final Exam:** There will be a common final exam, 2 and 1/2 hours long, to be scheduled by the Faculty office during the exam period, April 16th to April 27th.

**Math Aid Hours:** The math aid office is in GB149. Hours: MT 1-4PM, R 12-4PM

**Calculators:** Use of a Casio 260, Sharp 520, or Texas Instrument 30 calculator will be permitted during tests and exams. However, it is still your responsibility to explain your work. A correct answer with no justification will receive little or no marks.

**Chapter 11:** The material on vectors in Sections 11.2 to 11.6 is the same as material covered in MAT188H1F; it will *not* be repeated in MAT187H1S.

**Course Coordinator:** D. Burbulla

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office hours: MT 1-4PM, R 12-4PM

**Course Websites:** <http://www.math.utoronto.ca/burbulla/>

and the websites on the Portal, which will be used to post announcements and test results.

**Course Outline and Homework Exercises:** The following sequence of 38 lectures is only an approximate schedule. Some topics may be added or deleted.

Lectures	Topic	Reference	WileyPlus and Additional Homework (*)
1 to 9 ↓ Jan 27 ↓	Principles of Integral Evaluation (pp 526-528)	Sec 7.1 Sec 7.2 Sec 7.3 Sec 7.4 Sec 7.5 Sec 7.6 Sec 7.7 Sec 7.8	#1, 5, 11, 13, 15, 19, 21, 23, 25, 29 #2, 4, 5, 9, 13, 15, 20, 25, 28, 31, 33, 59, 61 #3, 4, 5, 10, 13, 17, 20, 21, 25, 31, 47, 59 #7, 8, 9, 13, 21, 25, 33, 35, 39, 41, 47 #3, 7, 10, 11, 13, 19, 23, 24, 27, 28, 32, 39, 43 #3, 15, 37, 41, 51, 55, 71, 79, 81, 91 #2, 6, 12, 18, 26, 30, 35 #5, 9, 15, 18, 27, 29, 32, 45, 51, 71
10 to 15 ↓ Feb 10 ↓	Mathematical Modeling with Differential Equations	Sec 8.1 Sec 8.2 Sec 8.3 Sec 8.4 Appx L*	#9, 10, 11, 12, 15, 16, 17, 18, 21, 22 #5, 7, 27, 29, 31, 34, 40, 47, 53, 59, 63, 66 #2, 3, 5, 8, 11, 23, 24 #1, 3, 4, 6, 8, 9, 21, 23, 27, 28 #2, 4, 6, 8, 12, 14, 16, 18, 19, 22, 33, 39, 40, 41
16 to 27 ↓ Mar 16 ↓	Infinite Series	Sec 9.1 Sec 9.2 Sec 9.3 Sec 9.4 Sec 9.5 Sec 9.6 Sec 9.7 Sec 9.8 Sec 9.9 Sec 9.10	#1, 3, 7, 13, 17, 23, 25, 29, 42, 43 #3, 4, 5, 11, 17, 18, 21, 23, 25, 26 #3, 5, 7, 9, 13, 23, 27, 31, 33 #1, 3, 7, 11, 13, 15, 21, 25, 29 #3, 5, 11, 17, 29, 37, 39, 41, 45, 49 #9, 11, 19, 21, 27, 33, 35, 37, 41, 45 #3, 5, 9, 13, 19, 21, 24, 25, 37, 44 #7, 11, 18, 19, 21, 23, 35, 38, 45, 47 #3, 5, 9, 11, 23; 17* #7, 9, 13, 15, 16, 18, 19, 31; 27*, 29*, 36*, 37*, 38*
28 to 31 ↓ Mar 26 ↓	Parametric and Polar Curves	Sec 10.1 Sec 10.2 Sec 10.3	#5, 6, 7, 9, 10, 12, 15, 23, 37, 46, 62, 65; 47*, 49*, 51*, 69*, 75* #2, 3, 4, 7, 13, 21, 23, 24, 26, 35, 37, 41, 46 #1, 5, 7, 9, 22, 29, 30, 33, 37, 39, 54; 31*, 41*, 43*
31 to 35 ↓ Apr 4 ↓	Vector-Valued Functions	Sec 12.1 Sec 12.2 Sec 12.3 Sec 12.6	#6, 7, 8, 9, 10, 17, 19, 21, 24, 43 #1, 3, 9, 10, 19, 21, 25, 29, 35, 37, 45, 47 #6, 7, 9, 11, 24, 29, 41, 43; 27*, 33* #7, 13, 14, 19, 20, 21, 27, 40, 52, 59, 67; 55*, 61*
36 to 38 ↓ Apr 13 ↓	Partial Derivatives	Sec 13.1 Sec 13.3 Sec 13.8	#5, 9, 10, 11, 12, 14, 17, 57, 59 #1, 5, 9, 27, 30, 35, 47, 53, 69; 73*, 75*, 77*, 81*, 91* #9, 10, 31, 33, 35, 37, 40, 45; 11*, 13*, 15*

**WileyPLUS Mark:** There are 322 assigned Wiley Plus questions. Your assignment mark out of 10 will be calculated as follows:

$$\text{mark out of 10} = \begin{cases} 10 & \text{if } x \geq 300 \\ x/30 & \text{if } x < 300 \end{cases}$$

where  $x$  is your Wiley Plus score out of 322. So to get your full 10% assignment mark you need to get at least 300 of the 322 questions correct.