

MAT 187H1F CALCULUS II: COURSE INFORMATION

May 2, 2011

MAT187H1F is the direct continuation of MAT186H1F/S, and uses the same book. We will do most of Chapters 7, 8, 9 and 10, plus selected sections of Chapters 12 and 13.

Lectures: The instructor is D. Burbulla; office: GB149; email: burbulla@math.utoronto.ca

Tuesday: 9-11AM in BA1170

Thursday: 2-4PM in BA1170

Friday: 11:30AM-1:30PM in BA1170

Office Hours: Tue and Thur: 12-2PM; Friday: 1:30-2PM

Tutorials: In addition to lectures you should attend the tutorial each Thursday, 9AM-11AM. Tutorial locations will be announced by Tuesday, May 10th on the Portal website. Tutorials start Thursday, May 12th.

Textbook: The textbook for this course is Anton, Bivens & Davis's *Calculus, Early Transcendentals* Version, 9th edition, with WileyPLUS. Most students will already have the book. This book 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.

WileyPlus Website: The url for the course website is

<http://edugen.wiley.com/edugen/class/cls220589/>

If you registered for MAT186F/S or MAT187S you will automatically have access to this MAT187F 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`

Marking Scheme: Term test 1: 20% Term test 2: 20% Quizzes: 10% Final Exam: 50%

Tests: There will be 90 min tests in tutorial on Thursday, May 19th and Thursday, June 2nd. This is to be confirmed.

Quizzes: 30 min quizzes are scheduled for Thursday May 12th, May 26th, June 9th and June 16th, in the last 30 min of tutorial. Only your best 3 of 4 quizzes will be counted.

Final Exam: The final exam will be scheduled during the period June 22-28.

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.

Websites: <http://www.math.utoronto.ca/burbulla/> and click on MAT187H1 Calculus II which will connect you to the MAT187 Information. The old tests, quizzes and exams come from previous versions of MAT187, both winter or summer.

We will also use the website for MAT187H1F on the portal, to post marks and make announcements.

Course outline, with suggested homework problems: The following outline is only approximate; we may become slightly behind or ahead of schedule in lectures.

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