

Math 202 — Spring 2012
Differential Equations, sections 16–19

Professor: Kamal Khuri-Makdisi, Bliss 311, phone 4234. E-mail to kmakdisi@aub.edu.lb is usually the easiest way to contact me. My **office hours** will be announced shortly. Check out the course website frequently for announcements: <http://people.aub.edu.lb/~kmakdisi/>

Class time: Large lectures, MWF **7:50**, in Nicely 415. **Mandatory recitation sections** will be given by Mrs. Fatima Mroué (FM) and myself (KKM). The schedule is: section 16, M 12:00, Nicely 210 (KKM); section 17, T 3:30, Bliss 203 (FM); section 18, T 12:30, Nicely 210 (FM); section 19, T 5:00, Nicely 103 (FM). **Make sure you know which section you are registered for. We reserve the option to give drop quizzes in section and the lecture if needed.**

Textbooks: [Z] D. Zill, *A First Course in Differential Equations with Modeling Applications*, 9th edition, and [TWH] Thomas/Weir/Hass, *Thomas' Calculus*, 12th edition (same book as in Math 201, **which is a prerequisite for 202**).

Course requirements: 1) two quizzes; 2) comprehensive final exam. The quizzes and final exam will be **closed book**, and calculators will **NOT** be allowed. **Please make a note from now of the date and time of Quiz 1 and Quiz 2, as given below.** Your grade will be determined by the BETTER of the following two options: a) 25% each quiz, 50% final, and b) 15% quiz 1, 20% quiz 2, 65% final. Option b) is mainly there to help students who have shown improvement during the semester. I will not give make-up quizzes. If you miss a quiz for a significant medical reason (with a note from **the AUB infirmary ONLY**) or other reason that I consider justified, I will determine an appropriate way of assigning the grade based on your remaining coursework.

Syllabus and assigned exercises: University courses are different from school: for each hour you spend in class, you need to spend **2–3 hours** on average studying at home or in the library. Carefully read and review the book and your notes **before each class**, and work through all the assigned exercises **as a minimum**.

Approximate date	Section in [Z] or [TWH]	Assigned Exercises
Feb 13–17	[TWH] 16.1	1–8, 9, 11, 13, 15, 16, 19, 27, 29, 30, 33, 35, 36 (review 16.1–16.4 seriously)
	[TWH] 16.2	1–5, 7, 9, 19, 21, 23, 25, 27, 29, 31, 33, 35, 41, 42, 43, 44, 47, 48, 53 (more review)
	[TWH] 16.3	1, 3, 4, 5, 6, 7, 8, 9, 13–22, 25, 26, 28, 31, 33, 37, 38 (more review)
	[TWH] 16.4	1–4, 5, 7, 8, 10, 11, 13, 20, 21, 23, 24, 25, 32, 33, 37, 39 (end of review)
Feb 20–24	[TWH] 16.5	2, 6, 7, 9, 17, 19, 22, 26, 28, 31, 32, 37, 39, 41
	[TWH] 16.6	3, 9, 10, 19, 21, 22, 25, 28–32, 35–38, 42
Feb 27–Mar 2	[TWH] 16.7	1, 3, 6, 9, 10, 13, 19, 20, 21, 26 — and — Handout with extra problems
	[TWH] 16.8	1–6, 8, 9, 11, 13, 17, 18, 19, 21, 27, 28 (optional: 29–32 and p.987, exercises 13–16)
Mar 5–9	[Z] 1.1	2, 3, 12, 13, 16, 17, 20, 22, 23, 25, 26, 27, 29, 37, 43, 56, 58
	[Z] 2.2	3, 7, 8, 12, 14, 15, 16, 17, 20, 21, 22, 23, 24, 26, 28, 30, 32

QUIZ 1, Saturday, March 10, 8:00am–9:30am — location will be announced later

Mar 12–16	[Z] 2.3	2, 3, 7, 10, 14, 15, 16, 17, 19, 20, 22, 23, 24, 26, 28, 31, 33
	[Z] 2.4	2, 3, 8, 9, 11, 12, 17, 18, 20, 22, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 38, 42a, 43
	[Z] 2.5	1, 8, 9, 10, 13, 14, 15, 16, 17, 18, 20, 22, 25, 29, 30, 35, 36
	[Z] Ch. 2 Review	10ijmn, 11, 12, 13, 15, 16, 17, 20 — and — Handout with extra problems
Mar 19–23	[Z] 1.2	1, 3, 6, 7, 9, 12, 15, 17, 19, 20, 22, 24, 29, 30
	[Z] 4.1	2, 3, 5, 7, 9, 10, 12, 13, 14, 15, 18, 20, 25, 28, 31, 32, 35, 38, 39
Mar 26–30	[Z] 4.2	1, 4, 5, 8, 9, 11, 13, 17, 19, 20
	[Z] 4.3	8, 11, 17, 19, 22, 23, 26, 27, 28, 30, 31, 32, 34, 36, 38, 41, 43, 45, 46, 48, 50, 59, 60
Apr 2–4	[Z] 4.4	1, 5, 10, 15, 19, 21, 22, 25, 30, 35, 37, 38, 41, 45, 47
	[Z] 4.6	1, 2, 3, 6, 9, 13, 14, 15, 18, 21, 22, 23, 24, 26, 28
Apr 11	[Z] 4.7	4, 7, 11, 14, 15, 17, 20, 22, 27, 28, 33, 35, 36, 37
Apr 18–20	[Z] Ch. 4 Review	17, 18, 19, 20, 24, 29, 31
	[Z] 6.1	5, 6, 8, 12, 14, 15, 16, 18, 19, 23, 24, 25, 27, 30, 31, 36, 37, 39ad

QUIZ 2, Saturday, April 21, 8:00am–9:30am — location will be announced later

Apr 23–27	[Z] 6.2	4, 5, 7, 10, 15, 19, 22, 23, 24, 26, 27, 28, 30, 32, 37
	[Z] 6.3	1, 2, 3, 6, 7, 11, 14, 15, 16, 18, 23, 30, 31, 32
	[Z] Ch. 6 Review	9, 11, 12, 13, 23, 24
Apr 30–May 4	[Z] 7.1	1, 5, 12, 13, 14, 15, 16, 17, 18, 23, 26, 27, 28, 29, 32, 33, 34, 35, 38, 40, 41, 42, 46
	[Z] 7.2	3, 4, 9, 13, 15, 17, 20, 24, 29, 30, 31, 32, 34, 35, 36, 39, 40
	[Z] 7.3	3, 5, 8, 10, 15, 18, 19, 21, 25, 30, 31, 38, 39, 41, 45, 47, 48, 49, cont'd: ↔ ↔ 50, 51, 53, 56, 59, 63, 65, 67, 69, 70, 83
	May 7–11	[Z] 7.4
May 7–11	[Z] 7.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
	[Z] 7.6	1, 2, 5, 7, 9, 10, 12 — and — [Z] Ch. 7 Review, 34, 35, 36, 37, 39, 40
May 14–18	[Z] Appendix II	1, 3, 8, 9, 13, 15, 19, 23, 27, 34, 38, 39, 47, 49, 51, 53, 55
	[Z] 8.1	1, 2, 6, 7, 11, 12, 13, 25
May 21–25	[Z] 8.2	1, 2, 3, 4, 5, 6, 9, 13, 23, 25, 33, 34, 35, 39, 41, 42, 44, 45

COMPREHENSIVE FINAL EXAM — time and location will be announced later