

Math 307 D — Summer 2015 Schedule

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|--------|---|------|--|
| Week 1 | M | 6/22 | Intro, calculus review, §2.2: separable equations |
| | W | 6/24 | §2.1: integrating factors |
| | | | Quiz 1: separable equations, calculus |
| | F | 6/26 | §2.3: first order modeling I |
| Week 2 | M | 6/29 | §2.3: first order modeling II |
| | | | Homework 1 due |
| | W | 7/1 | §2.5: autonomous equations |
| | F | 7/3 | No class |
| Week 3 | M | 7/6 | §2.7: Euler's method |
| | | | Homework 2 due |
| | W | 7/8 | §2.4, 2.8: linear equations; existence and uniqueness |
| | | | Quiz 2: chapter 2 |
| Week 4 | F | 7/10 | §3.1: homogeneous, constant coefficient equations |
| | M | 7/13 | §3.2: the Wronskian |
| | | | Homework 3 due |
| | W | 7/15 | §3.3: second order questions and complex roots |
| Week 5 | F | 7/17 | §3.4: repeated roots, reduction of order |
| | M | 7/20 | Catch-up/review |
| | W | 7/22 | Midterm |
| | F | 7/24 | §3.5: non-homogeneous DE's I |
| Week 6 | M | 7/27 | §3.5: non-homogeneous DE's II |
| | W | 7/29 | §3.6: variation of parameters |
| | | | Homework 4 due |
| | F | 7/31 | §3.7: unforced vibrations |
| Week 7 | M | 8/3 | §3.7, 3.8: unforced and forced vibrations |
| | | | Quiz 3: §3.1-§3.6 |
| | W | 8/5 | §3.8: forced vibrations |
| | | | Homework 5 due |
| Week 8 | F | 8/7 | §6.1: Laplace transform I |
| | M | 8/10 | §6.1: Laplace transform II |
| | W | 8/12 | §6.2: initial value problems via Laplace |
| | F | 8/14 | §6.3: step functions |
| Week 9 | | | Homework 6 due |
| | M | 8/17 | §6.4 discontinuous forcing |
| | | | Quiz 4: §6.1-§6.3 |
| | W | 8/19 | Catch-up/review |
| Week 9 | F | 8/21 | Final , emphasis on chapters 3 and 6. In lecture. |