

MATH 254, Summer 2013, II (Professor McLaughlin): SYLLABUS

The timing may vary from this proposed timetable. Make sure to stay up to date with the course as it actually evolves.

- Lecture 1: M 7/8: Intro; Initial Value Problems (Sec. 1.2)
- Lecture 2: T 7/9: Seperable Equations (Sec. 2.2), Linear Equations (Sec. 2.3)
- Lecture 3: W 7/10: Calculus Test, Linear Equations (Sec. 2.3)
- Lecture 4: R 7/11: Modeling and Applications (Secs. 3.2, 3.3, 3.4, 3.5)
- Lecture 5: F 7/12: Exact Equations (Sec. 2.4)
- Lecture 6: M 7/15: Exam #1, Mass-Spring systems (Sec. 4.1)
- Lecture 7: T 7/16: Homogeneous Linear Equations Part I (Sec. 4.2)
- Lecture 8: W 7/17: Homogeneous Linear Equations Part II (complex roots) (Sec. 4.3)
- Lecture 9: R 7/18: Method of Undetermined Coefficients Part I (Sec. 4.4)
- Lecture 10: F 7/19: Method of Undetermined Coefficients Part II (Sec. 4.5)
- Lecture 11: M 7/22: Exam #2, Variation of Parameters (Sec. 4.6)
- Lecture 12: T 7/23: Variation of Parameters (Sec. 4.6)
- Lecture 13: W 7/24: Systems of ODEs: Elimination Method (Sec. 5.2)
- Lecture 14: R 7/25: Coupled Mass-Spring and Electrical Systems (Secs. 5.6, 5.7)
- Lecture 15: F 7/26: Linear Systems (Sec. 9.5)
- Lecture 16: M 7/29: Linear Systems with Complex Eigenvalues (Sec. 9.6)
- Lecture 17: T 7/30: Intro. to the Phase Plane (Sec. 5.4, supplementary notes)
- Lecture 18: W 7/31: Exam #3, TBA
- Lecture 19: R 8/1: TBA
- Lecture 20: F 8/2: TBA
- Lecture 21: M 8/5: TBA
- Lecture 22: T 8/6: Review
- Lecture 23: W 8/7: Final Exam