Syllabus for Math 129 Sect. 20
Instructor: Kevin Lin
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Note: This syllabus may be updated as the semester progresses.

• Week of Aug. 20: Integration by substitution; integration by parts. Sects. 7.1, 7.2
• Week of Aug. 27: Tables of integrals; algebraic identities and trig substitutions. Sects. 7.3, 7.4
• Week of Sept. 3: Approximating definite integrals; Simpson’s rule; improper integrals. Sects. 7.5 - 7.7
• Week of Sept. 10: More on improper integrals; Exam 1 Sects. 7.7, 7.8
• Week of Sept. 17: Areas and volumes; applications to geometry. Sects. 8.1, 8.2
• Week of Sept. 24: Density and center of mass; applications to physics. Sects. 8.1, 8.2, 8.5
• Week of Oct. 1: Sequences; geometric series. Sects. 9.1, 9.2
• Week of Oct. 8: Convergence of series; tests for convergence. Sects. 9.3, 9.4
• Week of Oct. 15: Power series and interval of convergence; Exam 2. Sect. 9.5
• Week of Oct. 22: Taylor polynomials; Taylor series. Sects. 10.1, 10.2
• Week of Oct. 29: Finding and using Taylor series; intro to differential equations. Sects. 10.3, 11.1
• Week of Nov. 5: Slope fields; Euler’s method; separation of variables. Sects. 11.2 - 11.4
• Week of Nov. 12: Growth and decay; modeling. Sects. 11.5, 11.6
• Week of Nov. 19: More on modeling; Thanksgiving. Sect. 11.6
• Week of Nov. 25: Exam 3; models of population growth. Sect. 11.7
• Week of Dec. 2: Review.
• Dec. 10: Final exam.