

Math 203: Contemporary Mathematics

Section 009, spring 2009

Tentative schedule

This schedule is subject to change. See the course Web page at <http://www.math.unl.edu/~s-bke111/203-2009s/> for an up-to-date schedule.

Date	Read before class	In class
Tues Jan 13 Thurs Jan 15	Section 1.1, pages 3–12	Introduction Identification numbers, check digits
Tues Jan 20 Thurs Jan 22	Section 1.3, pages 37–50 Section 2.1, pages 61–78 Section 2.2a, pages 86–89	Encoding data Chapter 1 test; tilings and symmetry
Fri Jan 23	Last day to withdraw without receiving a “W”	
Tues Jan 27 Thurs Jan 29	Section 2.2b, pages 90–101 Section 2.3, pages 112–125 Section 6.1, pages 341–353	Rigid motions, Fibonacci numbers, golden ratio Chapter 2 test; intro to graphs, Eulerian paths and circuits
Tues Feb 3 Thurs Feb 5	Section 6.2, pages 360–370 Section 6.3, pages 378–395	Weighted graphs, minimal spanning trees Hamiltonian paths and circuits, traveling salesman problem
Tues Feb 10 Thurs Feb 12	Section 7.1, pages 411–425 Section 7.2, pages 432–446	Chapter 6 test; intro to scheduling, digraphs Scheduling techniques
Tues Feb 17 Thurs Feb 19	Section 7.3, pages 452–465 Section 6.3 #47–49, pages 401–403 Section 8.1, pages 477–489	Critical paths, graph coloring Chapter 7 test; intro to plots and graphs
Tues Feb 24 Thurs Feb 26	Section 8.2, pages 503–511 Section 8.3, pages 527–544 Section 9.1, pages 565–573	Comparisons with graphs, distorted and misleading graphs Chapter 8 test; populations, samples, and data
Tues Mar 3 Thurs Mar 5 Fri Mar 6	Section 9.2, pages 578–586 Section 9.3, pages 594–613 Last day to change course registration to or from “Pass/No Pass”	Survey sampling methods Measures of central tendency and variability (mean, variance, etc.)
Tues Mar 10 Thurs Mar 12	Section 10.1, pages 633–644 Section 10.2, pages 652–664	Chapter 9 test; intro to probability Probabilities in multistage experiments
Tues Mar 17 Thurs Mar 19	No class: Spring Break No class: Spring Break	
Tues Mar 24 Thurs Mar 26	Section 10.3, pages 673–686 Section 11.1, pages 701–711	Conditional probability, expected value, odds Chapter 10 test; normal distributions
Tues Mar 31 Thurs Apr 2	Section 11.2, pages 715–723 Section 11.3, pages 729–738	Applications of normal distributions Confidence intervals, reliable estimation
Tues Apr 7 Thurs Apr 9 Fri Apr 10	Section 3.1, pages 143–153 Section 3.2, pages 163–172 Last day to withdraw	Chapter 11 test; voting systems Flaws of voting systems
Tues Apr 14 Thurs Apr 16	Section 3.3, pages 183–192 Section 5.1, pages 287–299	Weighted voting systems Chapter 3 test; quota methods for apportionment
Tues Apr 21 Thurs Apr 23	Section 5.2, pages 306–316 Section 5.3, pages 322–329 Section 12.1, pages 753–764	Divisor methods for apportionment, flaws of apportionment methods Chapter 5 test; exponential growth, large numbers
Tues Apr 28 Thurs Apr 30	To be determined To be determined	Mathematical fun, curiosities, and puzzles Mathematical fun, curiosities, and puzzles