

Math 165 Spring 2009 Tentative Calendar

April 6, 2009

Day	Monday	Wednesday	Friday
Date	Feb 2	Feb 4	Feb 6
Topic	Management Science	Management Science	Management Science
Book Chapter	Ch 1: Urban Services	Ch 1: Urban Services	Ch 2: Business Efficiency
Topics	Graphs, Circuits, Euler Circuits	Eulerization, Digraphs, Applications	Hamiltonian Circuits, Minimal Cost Circuits, Fundamental Principle of Counting, Traveling Salesman Problem
Date	Feb 9	Feb 11	Feb 13
Topic	Management Science	Management Science	Management Science
Book Chapter	Ch 2: Business Efficiency	Ch 2: Business Efficiency	Ch 4: Linear Programming
Topics	Greedy Algorithms: Nearest Neighbor, Sorted Edges	Minimum Cost Spanning Trees, Kruskal's Algorithm	Mixture Problems, Optimal Production Policy, Feasible Region, Corner Point Principle
Date	Feb 16	Feb 18	Feb 20
Topic	Management Science	Management Science	Management Science
Book Chapter	Ch 4: Linear Programming	Ch 4: Linear Programming	Ch 3 or 4
Topics			
Date	Feb 23	Feb 25	Feb 27
Topic	Statistics: The Science of Data	Project	Mike in N.J.: No Class
Book Chapter	Ch 5: Exploring Data		
Topics	Histograms, Stemplots, Mean, Median, Quartiles, Boxplots		
Date	Mar 2	Mar 4	Mar 6
Topic	Statistics: The Science of Data	Management Science	Statistics: The Science of Data
Book Chapter	Ch 5: Exploring Data Distributions	Exam 1	Ch 5: Exploring Data Distributions
Topics	Standard Deviation		Normal Distribution
Date	Mar 9	Mar 11	Mar 13
Topic	Statistics: The Science of Data	Statistics: The Science of Data	Statistics: The Science of Data
Book Chapter	Ch 6: Exploring Data Relationships	Ch 6: Exploring Data Relationships	Ch 8: Probability the Mathematics of Chance
Topics	Scatterplot, Association, Regression Line, Correlation	Least Squares Linear Regression and other Regressions	Sample Space, Event, Probability, Rules for Probability
Date	Mar 16	Mar 18	Mar 20
Topic	Statistics: The Science of Data	Statistics: The Science of Data	Statistics: The Science of Data
Book Chapter	Ch 8: Probability the Mathematics of Chance	Ch 8: Probability the Mathematics of Chance	Ch 8: Probability the Mathematics of Chance
Topics	Sample Space, Event, Probability, Rules for Probability	Continuous Probability Models, Mean and Standard Deviation, Central Limit Theorem	Central Limit Theorem
Date	Mar 23	Mar 25	Mar 27
Topic	SPRING BREAK		
Book Chapter			
Topics			
Date	Mar 30	Apr 1	Apr 3
Topic	Statistics: The Science of Data	Statistics: The Science of Data	Statistics: The Science of Data
Book Chapter	Ch 7: Data for Decisions	Ch 7: Data for Decisions	Ch 7: Data for Decisions
Topics	Sampling Distributions, Sample Proportion	Confidence Intervals	Confidence Intervals
Date	Apr 6	Apr 8	Apr 10
Topic	Voting and Social Choice	Exam 2	Voting and Social Choice
Book Chapter	Review for Exam 2		Ch 9: Social Choice the Impossible Dream
Topics		Majority Rule, Condorcet Method,	
Date	Apr 13	Apr 15	Apr 17
Topic	Voting and Social Choice	Voting and Social Choice	Your Money and Resources
Book Chapter	Ch 9: Social Choice the Impossible Dream	Ch 9: Social Choice the Impossible Dream	Ch 21: Savings Models
Topics	Other Methods	Arrow's Impossibility Theorem, Approval Voting	Simple interest, Compound interest, Present value, Continuous compounding
Date	Apr 20	Apr 22	Apr 24
Topic	Your Money and Resources	Senior Projects Day	Mike in D.C. No Class
Book Chapter	Ch 21: Savings Models		
Topics	CPI, Present Value and Inflation		
Date	Apr 27	Apr 29	May 1
Topic	Your Money and Resources	Your Money and Resources	Your Money and Resources
Book Chapter	Ch 22: Borrowing Models	Ch 22: Borrowing Models	Ch 23: The Economics of Resources
Topics	Simple Interest, Compound Interest, Conventional Loans	Mortgages and Annuities	Biological Growth Models, Nonrenewable Resources
Date	May 4	May 6	May 8
Topic	Your Money and Resources	Your Money and Resources	Your Money and Resources
Book Chapter	Ch 23: The Economics of Resources	Out of Book	Exam 3
Topics	Harvesting	More on Sustainability Modeling	
Date	May 11	May 13	May 15
Topic	Your Money and Resources	Final Review	Final Exam 8:30-11
Book Chapter	Out of Book		
Topics	More on Sustainability		