

Math 110 Schedule (subject to change)

| Date | Topics | Homework |
|----------------|--|--|
| Monday 1/27 | Syllabus Review Sign into myOpenMath Linear functions, slope, writing equations, graphing equations | Work on HW#1 Make sure Excel is up to date on Bryant issued laptop |
| Wednesday 1/29 | Linear Applications: supply and demand; cost, revenue, profit; linear growth; residuals | HW #1 – Linear Equations due at 11:59 pm Start HW# 2 |
| Monday 2/3 | Linear Application Day 2 Quiz Review | Study for Quiz 1 Work on HW #2 Bring Laptop to class on 2/5 |
| Wednesday 2/5 | Quiz 1 Linear Functions and Excel: Scatterplots, line of best fit, predictions, estimation | HW #2 – Applications of Linear Equations due at 11:59 pm |
| Monday 2/10 | Review of solving quadratics by factoring and the Quadratic formula Graphing Quadratics, finding the vertex | Work on HW#3 |
| Wednesday 2/12 | Applications of Quadratics: Revenue, Cost, Profit; Supply and Demand, Income | HW #3 – Quadratic Solving and Graphing due at 11:59 pm Bring Laptop to class on 2/19 |
| Monday 2/17 | No Class President's Day | |
| Wednesday 2/19 | Quadratic Functions and Excel: Scatterplots, trendline, predictions, estimation Introduce Case Study #1 | HW #4 – Quadratic Applications due at 11:59 pm Work on Case Study #1 |
| Monday 2/24 | Exam 1 Review | Study for Exam 1 |
| Wednesday 2/26 | Exam 1 | Work on Case Study #1 |

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| Monday 3/3 | Exponential growth and decay, the number e, graphing, solving exponential equations | Case Study #1 Due at 11:59 pm – upload to Canvas Work on HW#5 |
| Wednesday 3/5 | Exponential Applications Day 1: Business, growth/decay, Personal finance (simple and compound interest) | HW #5– Graphing and Solving Exponentials Due at 11:59 pm Work on HW#6 Midterm grades reported on 3/7 |
| Monday 3/10 – Friday 3/14 | SPRING BREAK | Relax and recharge! |
| Monday 3/17 | Exponential Applications Day 2: Personal Finance (annuities, future value, loans, amortization) | Work on HW#6 Bring Laptop to class on 3/19 |
| Wednesday 3/19 | Exponential Functions and Excel: Compound interest, amortization tables, loans Quiz Review | HW #6 – Exponential Applications Due at 11:59 pm Study for Quiz Bring Laptop to class on 3/24 |
| Monday 3/24 | Quiz 2 Introduce Case Study #2 | Work on Case Study #2 |
| Wednesday 3/26 | Linear Programming: graphing inequalities, graphing with maximizations and constraints | Work on HW #7 Work on Case Study #2 |
| Monday 3/31 | Linear Programming: Solve linear inequalities with constraints algebraically and graphically | Case Study #2 Due at 11:59 pm – upload to Canvas Work on HW#7 Bring Laptop to class on 4/2 |
| Wednesday 4/2 | Linear Programming and Excel: setup and solve maximization problems, interpret solutions using slack variable analysis Introduce Case Study #3 | HW #7 – Linear Programming #1 Due at 11:59 pm Work on Case Study #3 |
| Monday 4/7 | Exam 2 Review | Study for Exam 2 |
| Wednesday 4/9 | Research and Engagement Day – No class | |
| Monday 4/14 | Exam 2 | Work on Case Study #3 |

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| Wednesday 4/16 | Average Rate of Change Derivatives: Power rule, product rule, quotient rule, exponential rule, logarithmic rule | HW #8 – Linear Programming #2 Due at 11:59 pm Work on HW #9 |
| Monday 4/21 | Derivatives: Power rule, product rule, quotient rule, exponential rule, logarithmic rule Day 2 | Case Study #3 Due at 11:59 pm – upload to Canvas |
| Wednesday 4/23 | Derivative Applications: Marginal Analysis Quiz 3 Review | HW #9 – Derivatives Due at 11:59 pm Work on HW #10 Study for Quiz 3 |
| Monday 4/28 | Quiz 3 Introduction to Optimization | Work on HW # 9 |
| Wednesday 4/30 | Optimization and Applications | HW #10 – Derivative Applications Due at 11:59 pm |
| Monday 5/5 | Exam 3 Review | Study for Exam 3 |
| Wednesday 5/7 | Exam 3 8:00 am – 10:30 am Report to regular classroom | |