

## Math 140 Weekly Spring Schedule

Textbook: *Mathematics for Business and Social Sciences* by Bollinger/Coffelt

### Week 1:

- Introduction to the course
- Section 1.1 – Basic Matrix Operations
- Section 1.2 – Matrix Multiplication

### Week 2:

- Section 2.1 – Review of Lines
- Section 2.2 – Modeling with Linear Functions

### Week 3:

- Section 2.3 – Systems of Two Equations in Two Unknowns
- Section 2.4 – Setting Up and Solving Systems of Linear Equations

### Week 4:

- Section 2.4 – Setting Up and Solving Systems of Linear Equations
- Review
- **Exam 1**

### Week 5:

- Section 3.1 – Setting Up Linear Programming Problems
- Section 3.2 – Graphing Systems of Linear Inequalities in Two Variables
- Section 3.3 – Graphical Solution of Linear Programming Problems

### Week 6:

- Section 3.4 – Simplex Method
- Section 4.1 – Mathematical Experiments

### Week 7:

- Section 4.2 – Basics of Probability
- Section 4.3 – Rules of Probability
- Section 4.4 – Probability Distributions and Expected Value

### Week 8:

- Section 4.4 – Probability Distributions and Expected Value
- Review
- **Exam 2**

### Week of Spring Break

### Week 9:

- Section 5.1 – Relations and Functions
- Section 5.2 – Polynomial Functions

### Week 10:

- Section 5.2 – Polynomial Functions
- Section 5.3 – Rational Functions
- Section 5.4 – Power and Radical Functions

### Week 11:

- Section 5.5 – Piecewise-Defined Functions
- Section 5.6 – Exponential Functions
- Section 5.7 – Combining and Transforming Functions

**Week 12:**

- Section 5.7 – Combining and Transforming Functions
- Section 5.8 – Inverse Functions and Logarithms

**Week 13:**

- Section 5.8 – Inverse Functions and Logarithms
- **Exam 3**

**Week 14:**

- Section 6.1 – Interest and Effective Rates
- Section 6.2 – Annuities, Sinking Funds, and Amortization

**Week 15: (MW/MWF only)**

- Review