

Weekly Schedule Spring 2021

Week 1 Jan 19th

- .4 Parametric Equations
- 1.1 Limits (overview and review section)
- Instruct students to review on their own the earlier sections
 - .1 sets and interval notation
 - .2 Conic Sections
 - .3 Function

Week 2 Jan 25th

- 1.2 Definition of Limit and its properties
- 1.3 Continuity

Week 3 Feb 1st

- 1.4 Average Rate and Velocity
- 2.1 Definition of Derivative
- 2.2 Power Rule

Week 4 Feb 8th (No class Tuesday)

- 2.3 Product and Quotient Rule
- 2.4 Trigonometric Functions' Derivatives

Week 5 Feb 15th

- 2.5 Chain Rule
- Review
- **Test #1 Friday, February 19th**

Week 6 Feb 22nd

- 2.6 (Part 1) Implicit Differentiation
- 2.6 (Part 2) Proofs of inverse trigonometric functions' derivatives; exponential and logarithmic functions' derivatives

Week 7 Mar 1st (No class Friday)

- 2.6 (Part 3) Logarithmic Differentiation; generalized power rule proven
- 2.7 Related Rates
- 2.7 Related Rates

Week 8 Mar 8th

- 3.1 Newton's Method
- 3.1 Linearizations
- 3.4 Optimization

Week 9 Mar 15th

- 3.4 Optimization
- Review
- **Test #2 Friday, March 19th**

Week 10 Mar 22nd (No class Wednesday)

- 3.5 L'Hopital's Rule
- 3.6 Antiderivatives

Week 11 Mar 29th

- 4.1 Areas and Riemann Sums
- 4.2 Definition of Definite Integral

Week 12 April 5th (No class Thursday)

- 4.3 Fundamental Theorem of Calculus Part 1
- 4.3 Fundamental Theorem of Calculus Part 2

Week 13 April 12th (No class Thursday)

- 4.4 Integration by change of variables (u-sub)
- 4.5 Integration by parts
- Mixed Review of Integration techniques

Week 14 April 19th

- Review
- **Test #3 Wednesday, April 21**
- 5.1 Areas between curves

Week 15 April 26th

- 5.2 Volumes of Revolution (disks and washers)
- 5.3 Volumes of Revolution (shells)