

## Suggested TR Calendar (Spring 2023)

**Week #1**

Tuesday	Jan. 10	Lesson 1 Lesson 2	§ 1.1 (Differential Equations and Mathematical Models) § 1.2 (Integrals as General and Particular Solutions)
Thursday	Jan. 12	Lesson 2 (cont) Lesson 3	§ 1.2 (Integrals as General and Particular Solutions) § 1.3 (Slope Fields and Solution Curves)

Homework due : None

**Recitation:** No Quiz**Week #2**

Tuesday	Jan. 17	Lesson 4 Lesson 5	§ 1.4 (Separable Equations and Applications) § 1.5 (Linear First-Order Equations, Part I)
Thursday	Jan. 19	Lesson 6	§ 1.5 (Linear First-Order Equations, Part II)

Homework due (**TUESDAY, Jan. 17**): HW 1, 2, 3**Recitation:** Quiz #1 (covers HW 1, 2, 3)**Week #3**

Tuesday	Jan. 24	Lesson 7 Lesson 8	§ 1.6 (Substitution Methods and Exact Equations, Part I) § 1.6 (Substitution Methods and Exact Equations, Part II)
Thursday	Jan. 26	Lesson 9	§ 2.1 (Population Models)

Homework due (Monday, Jan. 23): HW 4, 5, 6

**Recitation:** Quiz #2 (covers HW 4, 5, 6)**Week #4**

Tuesday	Jan. 31	Lesson 10	§ 2.2 (Equilibrium Solutions and Stability)
Thursday	Feb. 2	Lesson 11 Lesson 12	§ 2.4 (Numerical Approximation: Euler's Method) § 3.1 (Introduction to Linear Systems)

Homework due (Monday, Jan. 30): HW 7, 8, 9

**Recitation:** Quiz #3 (covers HW 7, 8, 9)**Week #5**

Tuesday	Feb. 7	Lesson 13 Lesson 14	§ 3.2 (Matrices and Gaussian Elimination) § 3.3 (Reduced Row-Echelon Matrices)
Thursday	Feb. 9	Lesson 15	§ 3.4 (Matrix Operations)

Homework due (Monday, Feb. 6): HW 10, 11, 12

**Recitation:** Quiz #4 (covers HW 10, 11, 12)**Week #6**

Tuesday	Feb. 14	Lesson 16	§ 3.5 (Inverse of Matrices)
Thursday	Feb. 16	Lesson 17	§ 3.6 (Determinants)

Homework due (Monday, Feb. 13): HW 13, 14, 15

**Recitation:** Quiz #5 (covers HW 13, 14, 15)**Week #7**

Tuesday	Feb. 21	Lesson 18 Lesson 19	§ 4.1 (The Vector Space $\mathbb{R}^3$ ) § 4.2 (The Vector Space $\mathbb{R}^n$ and Subspaces)
<b>Tuesday</b>	<b>Feb. 21</b>	<b>EXAM #1</b>	<b>Covers Lessons 1–15</b>
Thursday	Feb. 23	Lesson 19 (cont'd) Lesson 20	§ 4.2 (The Vector Space $\mathbb{R}^n$ and Subspaces) § 4.3 (Linear Combinations and Independence of Vectors)

Homework due : None

**Recitation:** No class**Week #8**

Tuesday	Feb. 28	Lesson 21	§ 4.4 (Bases and Dimension for Vector Spaces)
Thursday	Mar. 2	Lesson 22	§ 4.5 (Row and Column Spaces)

Homework due (Monday, Feb. 27): HW 16, 17, 18, 19

**Recitation:** Quiz #6 (covers HW 16-19)

**Week #9**

Tuesday	Mar. 7	Lesson 23	§ 5.1 (Intro: Second-Order Linear Equations)
Thursday	Mar. 9	Lesson 24	§ 5.2 (General Solutions of Linear Equations)

Homework due (Monday, Mar. 6): HW 20, 21, 22

**Recitation:** Quiz #7 (covers HW 20, 21, 22)**Week #10** **Spring Break - No Class****Week #11**

Tuesday	Mar. 21	Lesson 25	§ 5.3 (Homogeneous Equations with Constant Coeff, Part I)
		Lesson 26	§ 5.3 (Homogeneous Equations with Constant Coeff, Part II)
Thursday	Mar. 23	Lesson 27	§ 5.4 (Mechanical Vibrations)

Homework due (Monday, Mar. 20): HW 23, 24

**Recitation:** Quiz #8 (covers HW 23, 24)**Week #12**

Tuesday	Mar. 28	Lesson 28	§ 5.5 (Non-homogeneous Equations and Undetermined Coefficients, Part I)
Thursday	Mar. 30	Lesson 28 (cont'd)	§ 5.5 (Non-homogeneous Equations and Undetermined Coefficients, Part II)
		Lesson 29	§ 5.5 (Non-homogeneous Equations and Variation of Parameters)

Homework due (Monday, Mar. 27): HW 25, 26, 27

**Recitation:** Quiz #9 (covers HW 25, 26, 27)**Week #13**

Tuesday	Apr. 4	Lesson 30	§ 6.1 (Introduction to Eigenvalues)
<b>Tuesday</b>	<b>Apr. 4</b>	<b>EXAM #2</b>	<b>Covers Lessons 16–27</b>
Thursday	Apr. 6	Lesson 31	§ 7.1 (First-Order Systems and Applications)

Homework due : None

**Recitation:** No class**Week #14**

Tuesday	Apr. 11	Lesson 32	§ 7.2 (Matrices and Linear Systems)
Thursday	Apr. 13	Lesson 33	§ 7.3 (The Eigenvalue Method for Linear Systems)

Homework due (Monday, Apr. 10): HW 28, 29, 30, 31

**Recitation:** Quiz #10 (covers HW 28, 29, 30, 31)**Week #15**

Tuesday	Apr. 18	Lesson 34	§ 7.6 (Multiple Eigenvalue Solutions)
Thursday	Apr. 20	Lesson 35	§ 7.4 (A Gallery of Solutions Curves of Linear Systems, Part I)
		Lesson 36	§ 7.4 (A Gallery of Solutions Curves of Linear Systems, Part II)

Homework due (Monday, Apr. 17): HW 32, 33

**Recitation:** Quiz #11 (covers HW 32, 33)Homework due (**SUNDAY, Apr. 23**): HW 34, 35, 36**Week #16 (Quiet Period)**

Tuesday	Apr. 25	Final Exam Review
Thursday	Apr. 27	Final Exam Review

Homework due: None

**Recitation:** Final Exam Review