

Honors Linear Algebra Spring 2022 Schedule

| January 2022 | | | | | | |
|--|---|-----|---|-----|--|------------|
| ◀ December | | | | | | February ▶ |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 MLK Day | 18 | 19 First Day of Class Intro and expectations Before class: make an intro slide | 20 | 21 Section 1.1: Systems of Linear Equations | 22 |
| 23 Homework 1.1 Due at 11:59 pm ET | 24 Section 1.2: Row Reduction and Echelon Forms | 25 | 26 Section 1.3: Vector Equations | 27 | 28 Section 1.3: Vector Equations | 29 |
| 30 Homeworks 1.2 and 1.3 Due at 11:59 pm ET | 31 Class in person in MONT 112 Section 1.4: The Matrix Equation $Ax = b$ Courses dropped after this date will have a "W" | | | | | |

| February 2022 | | | | | | |
|--|---|--|---|-----|--|---------|
| ◀ January | | | | | | March ▶ |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | 1 | 2 Section 1.5: Solutions Sets of Linear Systems | 3 | 4 Section 1.7: Linear Independence | 5 |
| 6 Homeworks 1.4, 1.5 and 1.7 Due at 11:59 pm ET | 7 Quiz 1 Section 1.8: Introduction to Linear Transformations | 8 | 9 Section 1.8: Introduction to Linear Transformations | 10 | 11 Section 1.9: The Matrix of a Linear Transformation | 12 |
| 13 | 14 Section 1.8: Introduction to Linear Transformations Section 1.9: The Matrix of a Linear Transformation Quiz 1 corrections and reflection due | 15 Dean's signature required to add courses | 16 Section 1.9: The Matrix of a Linear Transformation Section 2.1: Matrix Operations | 17 | 18 Section 1.9: The Matrix of a Linear Transformation Section 2.1: Matrix Operations Section 2.2: The Inverse of a Matrix | 19 |
| 20 Homeworks 1.8, 1.9, and 2.1 Due at 11:59 pm ET | 21 Quiz 2 Section 2.1: Matrix Operations Section 2.2: The Inverse of a Matrix | 22 | 23 Section 2.2: The Inverse of a Matrix and Section 2.3: Characterizations of Invertible Matrices | 24 | 25 Section 3.1: Introduction to Determinants and Material from Section 3.3 | 26 |
| 27 Homeworks 2.2 and 2.3 Due at 11:59 pm ET | 28 Quiz 2 corrections and reflection due Section 3.1: Introduction to Determinants and Material from Section 3.3 | | | | | |

| March 2022 | | | | | | |
|--|---|---------------------|--|---------------------|---|---------------------|
| ◀ February | | | | | | April ▶ |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | 1 | 2 Section 3.2: Properties of Determinants | 3 | 4 No Class: Hanson is giving a talk at URI. | 5 |
| 6 Homeworks 3.1 and 3.2 Due at 11:59 pm ET | 7 Quiz 3 Section 4.1: Vector Spaces and Subspaces | 8 | 9 Section 4.1: Vector Spaces and Subspaces Section 4.2: Null Spaces, Column Spaces, and Linear Transformations | 10 | 11 Section 4.2: Null Spaces, Column Spaces, and Linear Transformations | 12 Spring Break! |
| 13 Spring Break! | 14 Spring Break! | 15 Spring Break! | 16 Spring Break! | 17 Spring Break! | 18 Spring Break! | 19 Spring Break! |
| 20 Homeworks 4.1 and 4.2 Due at 11:59 pm ET | 21 Quiz 3 corrections and reflection due Section 4.3: Linearly Independent Sets; Bases Class Cancelled | 22 | 23 Primary Source Project: Wronskians and Linear Independence | 24 | 25 Primary Source Project: Wronskians and Linear Independence | 26 |
| 27 Last day to turn in extra credit. | 28 Section 4.3: Linearly Independent Sets; Bases | 29 | 30 Section 4.4: Coordinate Systems | 31 | | |

| April 2022 | | | | | | |
|--|--|-----|---|-----|---|-------|
| ◀ March | | | | | | May ▶ |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | | 1 Section 4.5: The Dimension of a Vector Space | 2 |
| 3 Homeworks 4.3, 4.4, and 4.5 Due at 11:59 pm ET | 4 Cross Products and Determinants Project Primary Source Project due | 5 | 6 Section 4.6: Change of Basis | 7 | 8 Section 5.1: Eigenvectors and Eigenvalues ("Eigen" is German for "own" or "inherent") | 9 |
| 10 Homework 4.6 Due at 11:59 pm ET | 11 Quiz 4 Section 5.1: Eigenvectors and Eigenvalues Last day to withdraw from a course | 12 | 13 Section 5.2: The Characteristic Equation Section 5.3: Diagonalization | 14 | 15 Section 5.3: Diagonalization Section 5.4: Eigenvectors and Linear Transformations | 16 |
| 17 Homeworks 5.1, 5.2, and 5.3 Due at 11:59 pm ET | 18 Quiz 4 corrections and reflection due Section 5.4: Eigenvectors and Linear Transformations Section 6.1: Inner Product, Length, and Orthogonality | 19 | 20 Section 6.1: Inner Product, Length, and Orthogonality Section 6.2: Orthogonal Sets | 21 | 22 Section 6.2: Orthogonal Sets Cross Products and Determinants Project due | 23 |
| 24 Homeworks 5.4, 6.1, and 6.2 Due at 11:59 pm ET | 25 Section 6.3: Orthogonal Projections | 26 | 27 Section 6.3: Orthogonal Projections Section 6.4: The Projection Method | 28 | 29 Last Day of Classes Section 6.4: The Projection Method Homeworks 6.3 and 6.4 Due at 11:59 pm ET | 30 |

| May 2022 | | | | | | |
|--|-----|---|-----|-----|-----|--------|
| ◀ April | | | | | | June ▶ |
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| 1 Last day to complete homeworks 6.3 and 6.4 for full credit. | 2 | 3 Final Exam 3:30- 4:30 in MONT 225 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |