The three midterm exams will be held in Walker during lecture hours: closed book. All grading is by your recitation instructor!

W 2/5     The Geometry of Linear Equations 1.1–2.1
F 2/7     Singular and Invertible Matrices 2.2–2.3
M 2/10    Matrix Multiplication and Inverses 2.4–2.5
W 2/12    $LU$ Factors from Elimination 2.6
F 2/14    Symmetric and Orthogonal Matrices 2.7
T 2/18    Vector Spaces and Subspaces 3.1
W 2/19    The Nullspace: Solving $Ax = 0$ 3.2
F 2/21    Rectangular $PA = LU$ and $Ax = b$ 3.3–3.4
M 2/24    Row Reduced Echelon Form $R$ 3.3–3.4
W 2/26    Basis and Dimension and Rank 3.5
F 2/28    The Four Fundamental Subspaces 3.6
M 3/3     Graphs and Networks 8.2
W 3/5     Quiz Review
F 3/7     Exam 1: Chapters 1 to 3
M 3/10    Orthogonality 4.1
W 3/12    Projections and Subspaces 4.2
F 3/14    Least Squares Approximations 4.3
M 3/17    Gram-Schmidt and $A = QR$ 4.4
W 3/19    Properties of Determinants 5.1
F 3/21    Formulas for Determinants 5.2–5.3
M-F 3/24-28 SPRING BREAK
M 3/31    Eigenvalues and Eigenvectors 6.1
W 4/2     Diagonalization 6.2
F 4/4     Markov Matrices & Exam Review 8.3
M 4/7     Exam 2: Chapters 1–5, 6.1–6.2, 8.2
W 4/9     Differential Equations 6.3
F 4/11    Symmetric Matrices 6.4
M 4/14    Positive Definite Matrices 6.5
W 4/16    Matrices in Engineering 8.1
F 4/18    Similar Matrices 6.6
M 4/21    Patriot’s Day Holiday
W 4/23    Singular Value Decomposition 6.7
F 4/25    Fourier Series, FFT, Complex Matrices 8.5, 10.2–10.3
M 4/28    Linear Transformations 7.1–7.2
W 4/30    Choice of Basis 7.3
F 5/2     Linear Programming/Max Flow 8.4
M 5/5     Course Review
W 5/7     Exam 3: Chapters 1–8 (8.1, 2, 3, 5)
F 5/9     Numerical Linear Algebra 9.1–9.3
M 5/12    Computational Science 18.085
W 5/14    Linear Algebra in Biology

Final Exam