**Fall 2000**
**Math 4305**
**A. D. Andrew**

| Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|
| **21 AUG** Introduction Ch 1. Elimination | **22** | **23** Ch 1. Elimination, LU factorization | **24** | **25** Ch 1. Elimination, LU factorization |
| **28** Ch 2. Vector Spaces, linear transformations | **29** | **30** Ch 2. Vector Spaces, linear transformations | **31** | **1** Ch 2. Vector Spaces, linear transformations |
| **4 SEP** HOLIDAY | **5** | **6** Ch 2. Vector Spaces, linear transformations | **7** | **8** Ch 2. Vector Spaces, linear transformations |
| **11** Ch 3. Orthogonality | **12** | **13** Ch 3. Orthogonality | **14** | **15** Ch 3. Orthogonality |
| **18** Ch 3. Orthogonality | **19** | **20** Ch 3. Orthogonality | **21** | **22** Ch 4. Determinants |
| **25** HOUR TEST | **26** | **27** Ch 4. Determinants | **28** | **29** DROP DAY Ch 5. Eigenvalues, Eigenvectors |
| **2 OCT** Ch 5. Eigenvalues, Eigenvectors | **3** | **4** Ch 5. Eigenvalues, Eigenvectors | **5** | **6** Ch 5. Eigenvalues, Eigenvectors |
| **9** Ch 5. Eigenvalues, Eigenvectors | **10** | **11** Ch 5. Eigenvalues, Eigenvectors | **12** | **13** Ch 5. Eigenvalues, Eigenvectors |
| **16** Singular Value Decomposition and applications | **17** | **18** Cayley-Hamilton | **19** | **20** Singular Value Decomposition and applications |
| **23** HOLIDAY | **24** HOLIDAY | **25** Applications of Cayley-Hamilton and SVD | **26** | **27** Applications of Cayley-Hamilton and SVD |
| **30** HOUR TEST | **31** | **1** Discuss Test Ch 6. Positive Definite Matrices | **2** | **3** Ch. 6. Positive definite Matrices |
| **6 NOV** Ch. 6. Positive definite Matrices | **7** | **8** Ch. 6. Positive definite Matrices | **9** | **10** Ch 7 Norm, Condition number |
| **13** Ch 7 Iterative methods | **14** | **15** Ch. 7 Ideas from Analysis | **16** | **17** COMPUTER PROJECT DUE Ideas from Analysis |

| 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|
| Perron Frobenius theory of positive matrices | | Perron Frobenius theory of positive matrices | HOLIDAY | HOLIDAY |
| 27 | 28 | 29 | 30 | 1 |
| Perron Frobenius theory of positive matrices | | HOUR TEST | | Perron Frobenius theory of positive matrices |
| 4 DEC | 5 | 6 | 7 | 8 |
| Perron Frobenius theory of positive matrices | | Review | | Review |
| 11 | 12 | 13 | 14 | 15 |
| EXAM WEEK | | | | |