

MATH 129B – Fall 2002
Linear Algebra II, section 1
MW 14:30 – 15:45, MH 233
SCHEDULE

8/26/2002 (Mon) Introduction

8/28/2002 (Wed) complex numbers / polynomials

9/2/2002 (Mon) Holiday

9/4/2002 (Wed) definition of vector space

9/9/2002 (Mon) properties of vector spaces

9/11/2002 (Wed) subspaces

9/16/2002 (Mon) sums and direct sums

HW on chapter 1 due

9/18/2002 (Wed) span / linear independence

9/23/2002 (Mon) bases

9/25/2002 (Wed) dimension

HW on chapter 2 due

9/30/2002 (Mon) Test 1

10/2/2002 (Wed) Solution to Test 1

10/7/2002 (Mon) definition of linear map
10/9/2002 (Wed) Null spaces and Ranges
10/14/2002 (Mon) The matrix of a linear map
10/16/2002 (Wed) Invertibility
10/21/2002 (Mon) Invariant subspaces
 HW on chapter 3 due
10/23/2002 (Wed) Polynomials of operators
10/28/2002 (Mon) Triangularization
 HW on chapter 5 due
10/30/2002 (Wed) Diagonalization
11/4/2002 (Mon) Test 2
11/6/2002 (Wed) Solution to Test 2

11/11/2002 (Mon) Inner product

11/13/2002 (Wed) norm

11/18/2002 (Mon) orthonormal bases

HW on chapter 6 due

11/20/2002 (Wed) linear functional / adjoint

11/25/2003 (Mon) self-adjoint / normal operators

11/27/2002 (Wed) spectral theorem

12/2/2002 (Mon) positive operator / isometry

HW on chapter 7 due

12/4/2001 (Wed) Test 3

12/9/2001 (Mon) Solution to test 3

12/12/2001 (Thur) Final