



Mathematics 313

Honours Linear Algebra II

(see Course Descriptions for the applicable academic year: <http://www.ucalgary.ca/pubs/calendar/>)

Syllabus

Topics

**Number of
Hours**

Invariant subspaces, diagonalization and triangulation, direct-sum decompositions.

8

Rational and Jordan canonical forms.

8

Inner products, inner product spaces, orthogonalization, adjoints, unitary and normal operators.

8

Spectral theory.

8

SVD. Quadratic forms.

4

TOTAL HOURS

36

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2009:07:01

KEB