



Mathematics 113 **Eigenvalues and Eigenvectors**

A review of these particular topics for students who have completed [Mathematics 211](#) or equivalent.

Course Hours: E(8 hours)

Antirequisite(s): Credit for both [Mathematics 113](#) and 013 will not be allowed.

Notes: Open to students with credit in [Mathematics 211](#) or 221 or equivalent.

NOT INCLUDED IN GPA

Syllabus

<u>Topics</u>	<u>Number of Hours</u>
Formal Definitions: $Ax = \lambda x$, algebraic and geometric multiplicities, dominant eigenvalue, linear independence, diagonalizability	2
Methods of Calculation: characteristic equations, row and column reduction methods, triangular forms, real and complex solutions, properties	3
Applications: Diagonalization, similar matrices, matrix powers, three term recursions.	3
TOTAL HOURS	8

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calendar description change 2009:07:01
DH:jml