962-K1-551 **David E. Manes\*** (`ManesDE@oneonta.edu`), Mathematical Sciences Department, SUNY College at Oneonta, Oneonta, NY 13820. *ATLAST Project in Linear Algebra.* Preliminary report.

For the past year-and-a-half through participation in the NSF-funded New York State Mathematics Consortium, Oneonta State has been implementing the ATLAST Computer Exercises in our linear algebra sequence: Linear Algebra and Matrix Theory I,II. My colleague Constant Goutziers will report on the first semester of this course in a separate paper to be presented in this same session. This paper presents the theoretical and application highlights of the second semester of this course which includes the topics: projections, least squares approximations, QR & Singular Value Decompositions, symmetric and positive definite matrices, similarity, Jordan canonical form, and linear transformations. (Received September 15, 2000)