

1011-15-47 **Leslie Hogben*** (lhogben@iastate.edu), Department of Mathematics, Carver Hall, Iowa State University, Ames, IA 50011. *Matrix Completion Problems.*

A partial matrix is a rectangular array in which some entries are specified and others are not. A completion is a choice of values for the unspecified entries. A matrix completion problem asks which partial matrices have a completion with a desired property. In this talk we survey some of the matrix completion problems that have been studied, describe graph theoretical techniques for the study of matrix completion problems, and present new results. This talk will serve as an introduction to several other talks on matrix completion problems. (Received August 03, 2005)