

1035-V1-922

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Strath Haven is a grades 9-12 non-magnet public high school of approximately 1300 students in suburban Philadelphia. Since switching to block scheduling in 1996 it has seen an increasing number of students take BC calculus before their senior year. With the encouragement and help of nearby Swarthmore College, it instituted a linear algebra course to supplement the AP statistics and discrete math it was already offering beyond the standard curriculum. This report will address why linear algebra was chosen, how it was implemented, how it has succeeded, and issues for the future. There are ideas here on how high schools can serve their advanced students and on how colleges can help. (Received September 17, 2007)