1030-05-416   **A. Brieden**, Universität der Bundeswehr München, **Z. Füredi**, University of Illinois, Urbana-Champaign &, Renyi Institute of Mathematics, **A. Kündgen**, Cal State San Marcos, and **R. Ramamurthi***, Department of Mathematics, Cal State San Marcos, 333 S Twin Oaks Valley Road, San Marcos, CA 92069. (α, k)-*balanced graphs.*

A graph is called (α, k)-*balanced* if the subgraph, H, induced by any k vertices has independence number $\alpha(H) = \alpha$. We investigate the maximum number of vertices in an (α, k)-balanced graph for fixed α, k. We show, for example, that the maximum order of an $(\alpha, 2\alpha)$-balanced graph is $2\alpha + 2$ when $\alpha \geq 4$ and we describe all graphs of maximum order when $\alpha = 2, 3$. (Received August 07, 2007)