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Office Tower, Lexington, KY 40506. *The equations of curves on a quadric.*

We discuss the equations of space curves that are contained in any quadric and that are not arithmetically Cohen-Macaulay. These equations can be written in a very specific form that reflects the geometric properties of the curve. As an application we describe the possible module structures of the Hartshorne-Rao modules of curves on a quadric. (Received August 29, 2005)