Algebraic-Geometric (AG) codes arise from the evaluation of the elements of an \( \mathbb{F}_{q^m} \)-vector space of functions as a set of \( \mathbb{F}_{q^m} \) rational points on a curve \( X \). We shall consider trace codes associated to algebraic-geometric codes. Conditions will be derived where one can determine the exact dimension of such codes. This is a generalization of work done by Van Der Vlugt. (Received September 16, 2011)