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The Fitting module of a finitely generated module is a standard construction in commutative algebra, formed by taking the consecutive quotients of its Fitting ideals. These are determinantal ideals that tell us whether the module can be generated by a given number of elements. From a linear code, we naturally construct a Fitting module and show that its α -invariant (the smallest nonzero graded part) determines the minimum distance of the linear code. The goal of this talk is to show how various commutative/homological algebra invariants capture the minimum distance of linear codes. (Received August 31, 2015)