1041-14-110Daniel Chan and Adam Nyman* (adam.nyman@wwu.edu), Math Department, Bond Hall 202,
MS 9063, WWU, Bellingham, WA 98225. Criteria for Noncommutative Ruledness. Preliminary
report.

M. Artin conjectures that noncommutative surfaces are birationally ruled unless they are finite over their center. Criteria for a noncommutative surface to be ruled may be useful in settling this conjecture. As a first step in finding such criteria, we generalize the following commutative fact: Let K denote the canonical divisor of a smooth projective surface Y. If Y has an irreducible K-negative curve C with self-intersection 0, then there is a smooth curve X and fibration $Y \to X$ where C is a fiber and generically, the fiber is \mathbb{P}^1 . (Received August 06, 2008)