1116-47-974 Waleed Al-Rawashdeh* (walrawashdeh@mtech.edu), Montana Tech, 1300 West Park Street, Butte, MT 59701. Compact Composition Operators on Weighted Hilbert Spaces.

Let φ be an analytic self-map of open unit disk \mathbb{D} . A composition operator is defined as $(C_{\varphi}f)(z) = f(\varphi(z))$, for $z \in \mathbb{D}$ and f analytic on \mathbb{D} . Given an admissible weight ω , the weighted Hilbert space \mathcal{H}_{ω} consists of all analytic functions fsuch that $||f||^2_{\mathcal{H}_{\omega}} = |f(0)|^2 + \int_{\mathbb{D}} |f'(z)|^2 w(z) dA(z)$ is finite. In this talk, we study composition operators acting between weighted Bergman space A^2_{α} and the weighted Hilbert space \mathcal{H}_{ω} . (Received September 15, 2015)