1095-47-253 Waleed K. Al-Rawashdeh* (walrawashdeh@mtech.edu), Montana Tech, Department Of mathematical Sciences, 1300 W. Park Street, Butte, MT 59701. Weighted Composition Operators between Weighted Bergman and S^p Spaces.

Let φ be an analytic self-map of open unit disk \mathbb{D} and ψ is analytic on \mathbb{D} . The weighted composition operator induced by φ with weight ψ is given by $(W_{\psi,\varphi}f)(z) = \psi(z)f(\varphi(z))$, for z in \mathbb{D} and f analytic on \mathbb{D} . For each $p \geq 1$, let S^p be the space of analytic functions on \mathbb{D} whose derivatives belong to the Hardy space H^p . For $\alpha > -1$ and p > 0 the weighted Bergman space A^p_{α} consists of all analytic functions in $L^p(\mathbb{D}, dA_{\alpha})$, where $dA_{\alpha}(z) = \frac{(1+\alpha)}{\pi} (1-|z|^2)^{\alpha} dA(z)$ is the normalized weighted area measure. In this talk, we characterize boundedness and compactness of weighted composition operators act between weighted Bergman A^p_{α} and S^q spaces for $1 \leq p, q \leq \infty$. (Received September 10, 2013)