

# **MASE 6294 / MME 5294 Electron Microscopy Applications**

**Fall, 2019**

T: 2:00 to 2:50

W: 9:00 to 11:50

Mostly in Metallurgy M203

Instructor: David A. Roberson, Ph.D.

Office Hours: T-R 10:00 to 11:50

An exciting opportunity for hands on experience on three scanning electron microscopes and a transmission electron microscope. Multiple electron microscopy techniques will be covered including low, voltage electron microscopy, orientation imaging microscopy and elemental contrast microscopy. Specimen preparation techniques will also be covered. This course is heavy on the lab time and intended to develop hands on skills that will allow the student to perform high quality microscopy on a variety of specimen types.