I review some of the features of the galactic center that make it a good laboratory for extracting the multipole structure of the massive central compact object. This information will allow us to test the tenets that underlie our understanding of General Relativity. I comment on the time-line to experimentally measuring the quadrupole moment with existing and planned observations using gravitational wave and electromagnetic spectra. I conclude with a discussion of the current and needed theoretical infrastructure required to make a conclusive test. Focusing in particular, on the importance of strong field resonant effects during the final stages of the inspiral.