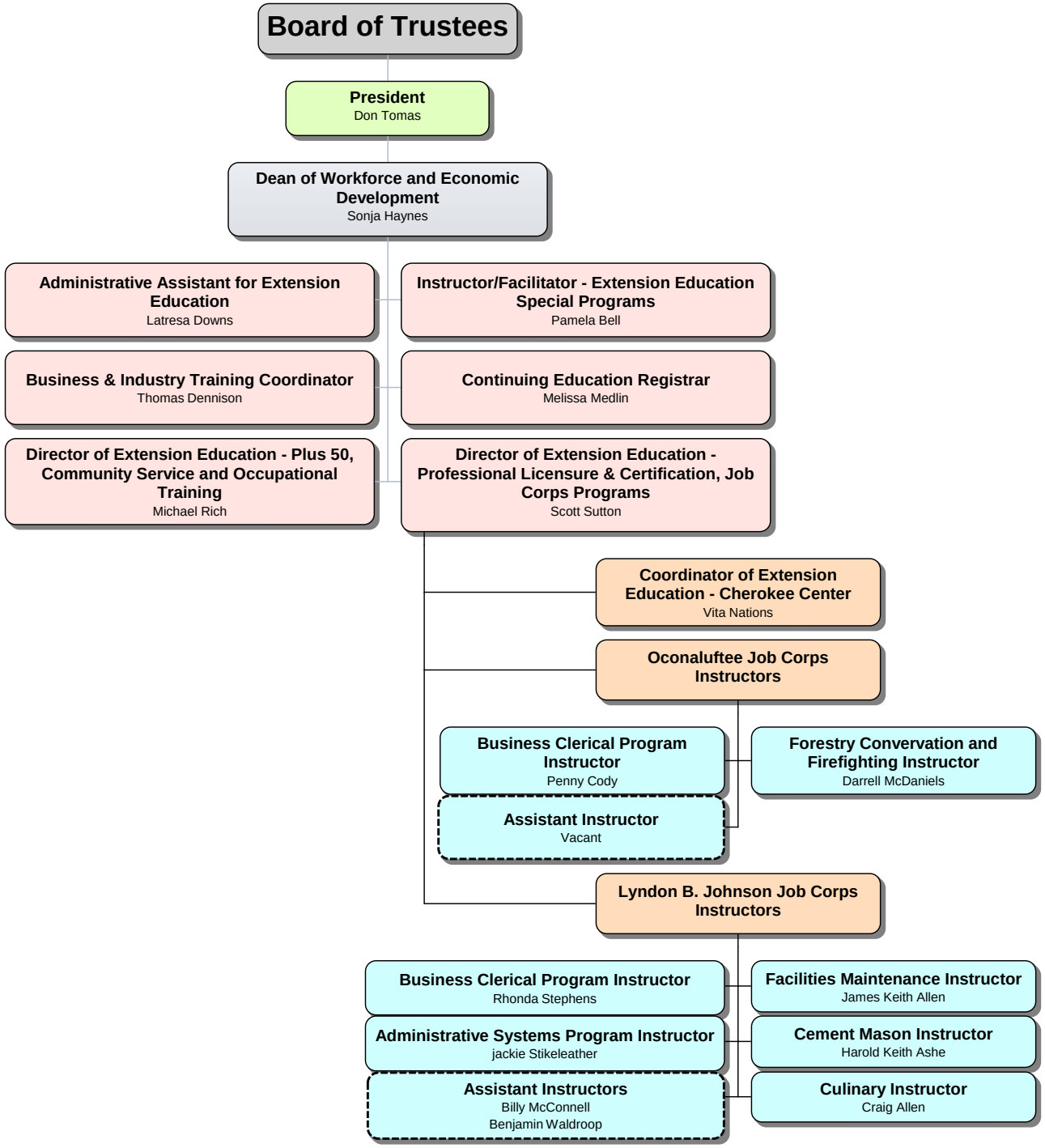Revised 5-16-2012