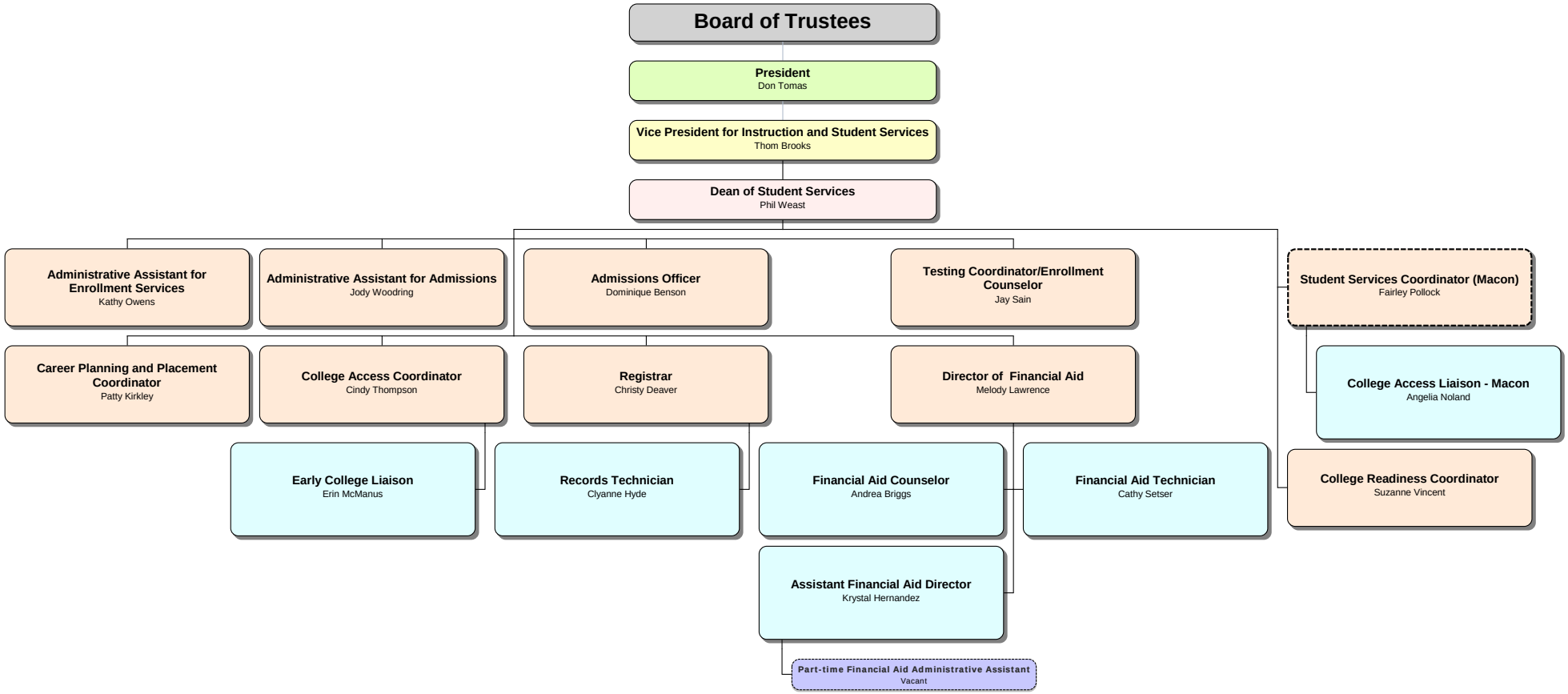Revised 5/16/2012