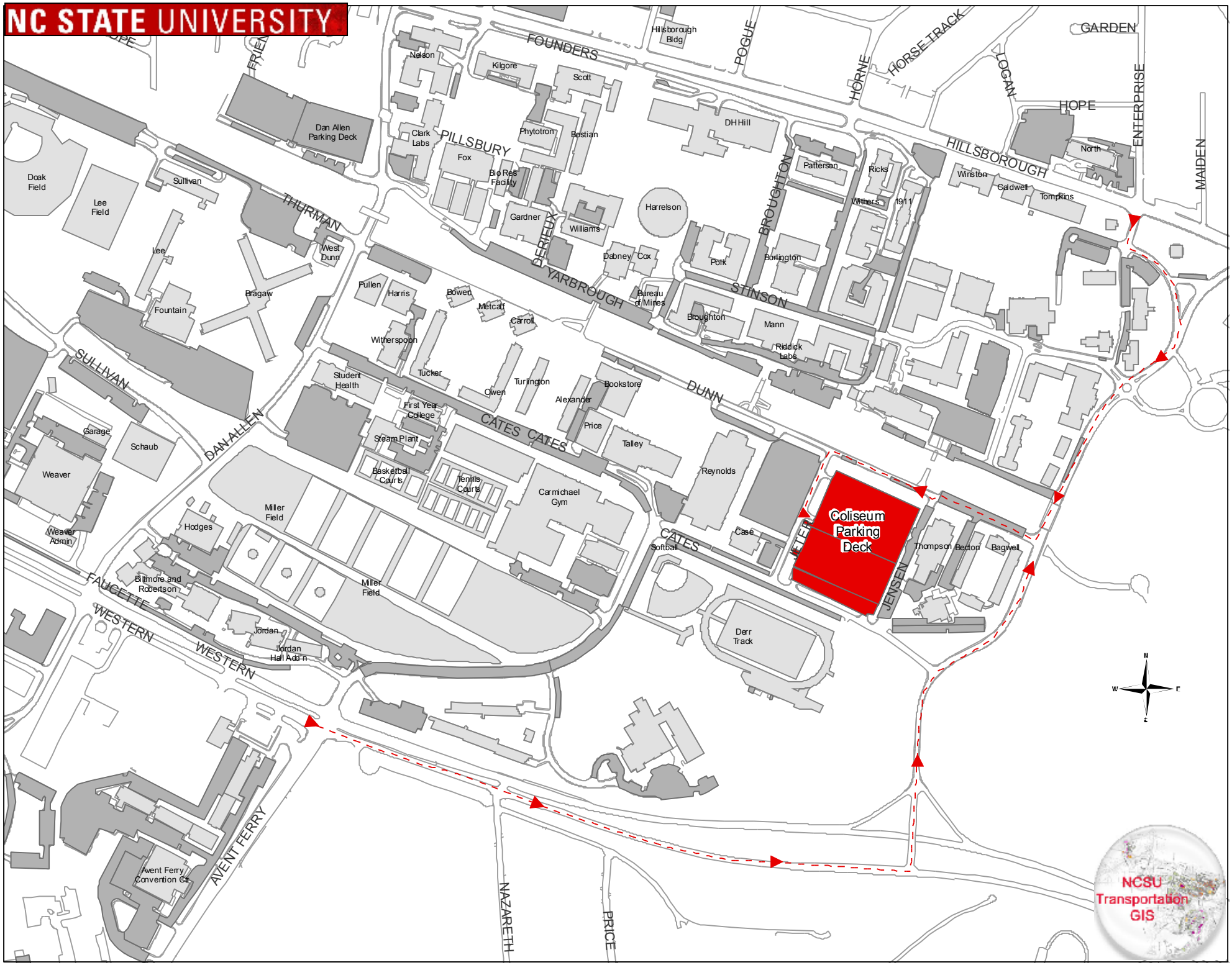NC STATE UNIVERSITY