## Input parameters:

wing\_span = 12.0 m= 5.0 mroot\_chord = 0.7taper\_inner = 0.5taper\_outer = 4.0 mkink\_position flap\_gap = 0.5 m $= 25.0 \deg$ sweep\_deg dihedral\_deg  $= 5.0 \deg$ front\_spar = 0.2 x/c= 0.7 x/crear\_spar outer\_flap\_lim = 0.7 y/bfuselage\_radius = 1.5 m= 2.0 clmax twist = 2.0 deg= 100.0 m/sspeed airfoil\_name = 4415 flap\_type = Fowler

## **Output parameters:**

cl\_max\_airfoil = 0.831 Delta\_cl\_max = 1.169 flap\_hinge\_location = 0.72