

Senior Design Project Description for FALL 2016

Project Title: Development of an Improved Suspension System for Chevy Suburban (UNCC_CHEVY)

Supporter: UNC Charlotte

Supporter Technical Representative: ASSIGNED

Faculty Mentor: ASSIGNED TBD (check one)

Single Team Dual Team (check one)

Personnel (EN/ET): E, Cp, Cv, 3 M, SE

(Complete if the number of students required is known)

Expected person-hours: (250 per student)

Description of Project:

This team will modify the suspension on a large Chevrolet Suburban SUV.

Initial Project Requirements (e.g. weight, size, etc.):

The modification will include conversion to four wheel disc brakes, a different rear axle, and suspension bushings. Besides the measurement, engineering, and testing involved, it will also require “hands on” modifications required for different springs and adjustment for proper pinion angle on the differential.

Expected Deliverables/Results:

The deliverable will be a completed modification that has been proved through testing.

List here any specific skills or knowledge needed or suggested (If none please state none):

Motorsports students only