## MEGR 2299 – Motorsports Engineering Clinic I

Catalog Data:	Motorsports Engineering Clinic I
	Introduction to equipment and tools used by engineers in the motorsports industry.
Textbooks(s):	None. Handouts will be provided as needed by the instructor.
Goals:	The goal of this course is to introduce students to the theory and use of common tools and equipment used by race engineers in the design, fabrication and testing of race cars and road vehicles.
Prerequisites:	Admission to motorsports concentration; Sophomore standing.
Topics:	Engine dynamometer
	Chassis dynamometer
	Flow bench (wet and dry)
	Shock dynamometer
	Spring rater
	Coordinate measuring machine
	TIG and MIG welder
	Chassis setup
	Lubricants
	Data acquisition
Outcomes/Objectives:	At the conclusion of this course, students will be familiar with the various pieces of equipment in the UNC Charlotte motorsports laboratory. A more complete understanding of the theory behind the equipment will come as the students complete their coursework.
Computer Usage:	Most of the equipment has a computer interface.
Grading:	Grades will be based of attendance and the final exam.
Follow-up courses:	MEGR 3255. Motorsports Engineering Clinic II
Coordinator:	J. M. Hill
Prepared by:	J. M. Hill, Spring 2009