

**ELE 491**  
Spring 2015  
**Homework 1**

**Due 2/9**

**Beginning of Class**

# Use the Hierarchical AHP method to choose between the purchase of a regular or hybrid model of a car

- The following data is available
  - Regular purchase price - \$28,000, hybrid purchase price - \$32,000
  - Regular MPG HW – 33, City – 25, hybrid MPG HW – 37, City – 30
- **CLEARLY state all other assumptions you make**
- Your analysis should include: cost, environmental impact, and reliability
- Your analysis should include tables (in some cases more than 1 each) for criteria weighting, solutions weighting and overall scoring