

# Applied (Engineering) Science

Applied (Engineering) Science is designed to give students who may have an interest in engineering or the physical sciences a chance to learn what engineers actually do and to solve real engineering problems.

## Concepts and Topics Include

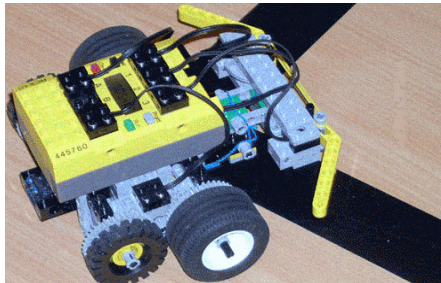
- engineering design
- engineered structures
- forces, load, tension, compression,
- strength of materials
- deformation
- engineering drawings
- materials property testing
- bridges
- stability of tall buildings
- the World Trade Center tower collapse
- New Orleans levee failures
- earthquake engineering
- engineering careers
- robotics
- artificial intelligence



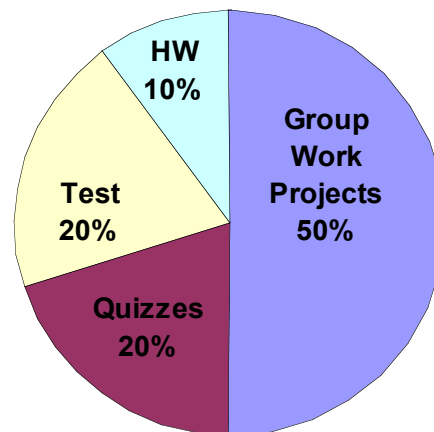
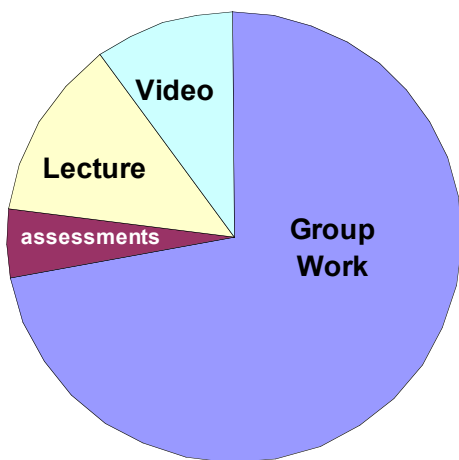
- computer programming
- sensors
- engineering ethics



**Class Time**



## Assessment



Wootton Graduates who subsequently took college engineering have reported that this course really helped them – they were much better prepared than the other students in their classes.

**Prerequisite:** Concurrent enrollment or prior On-level or Honors physics.  
**Applied Science Syllabus ([link](#))**