## Self-Assessment Results Unified Engineering, Fall '03 75 Respondents

- 1 Poor understanding, or never heard of the concept
- 2 Weak understanding, probably couldn't apply it properly
- 3 OK understanding, could apply it with considerable effort
- 4 Good undertanding, could apply it with little or no trouble
- 5 Excellent understanding, almost second nature

	cl	class fraction			
TOPIC OR CONCEPT	1	2	3	4	5
Equation of state for a perfect gas					
Fluid viscosity					
Vector addition and subtraction					
Scalar (Dot) product of two vectors					
Vector (Cross) product of two vectors					
Vector relations in polar coordinates					
Rotation of vectors between different coordinate systems					
Normal and tangential vectors on surface					
Gradient of a scalar field					
Divergence of a vector field					
Curl of a vector field					
Stokes Theorem					
Gauss (Divergence) Theorem					
Gradient Theorem					
Line, Surface, Volume integrals					
Conservation of mass					
Conservation of linear momentum					
Conservation of angular momentum					