## Introduction to Trigonometry with Applications

## **APPLICATION EXAMPLE - SIMILAR TRIANGLES**

PROFESSOR PANOS S. SHIAKOLAS MECHANICAL AND AEROSPACE ENGINEERING DEPARTMENT COLLEGE OF ENGINEERING UNIVERSITY OF TEXAS AT ARLINGTON



## Height of Unknown Object Find the height of an unknown object using its shadow Measure unknown object shadow length Use a known height object Measure known object \_ shadow length Apply similar triangle concept Statue of liberty 305 ft, 95 m Unknown Ebjed Height (UH) AF Unknown (Higect Shadow (US)