ES302 Introduction to the Triangulation Ver 3.0 updated spring 2015	Method N	Name	
Triangulation is the process of locating an unknown position by reference to three known points. This simple technique forms the basis of satellite-based Global Positioning System (GPS) technology.			
Task 1: take the attached map, brunton comparking lot, immediately northwest of the "I	-	e middle of the WOU	
Task 2: Check your compass to make sure to base map and orient yourself. Visually find corner of the stadium grand stand, and the rethese positions on your base map.	the water tower on Cupi	d's Knoll, the northeast	
Task 3: From your unknown position, determine azimuth bearings to and from each of the three known points, record your data below:			
Known Location	Azimuth From Unknown Position	Reverse Azimuth From Known Points	
Water Tower/Cupid's Knoll			
NW Corner Stadium Grand Stand			
NW Corner Cottage			
Task 4: Using the protractor and base map, draw the three "reverse azimuth" lines from the known points. Plot your unknown position with a point where the three lines intersect.			
Task 5: Using the 1:24,000 scale Monmouth the fractional scale of your attached base many	1 - 1	-	

Task 6: Using your GPS device, locate your present position in both Longitude-Latitude (decimal degrees) and UTM Zone 10 N meters (Datum NAD1927 Conus)

Longitude	Latitude	
UTM Easting	UTM Northing	

