**Study Guide Quiz 1**

**Contours**

Know and understand the basic characteristics of contours

Know how to recognize difference landforms from the contour signature

Understand how to trace the path of water on a contour map

Understand how to delineate a watershed from contour map

Know how to create contour map from grid data

Know how to interpolate for elevations between contour lines

Know how to determine cross-sections from contour maps

**Site Grading**

Know how to create contour for road features such as crowns, curbs, sidewalks, swales and side slopes

Know how to create grading plans for roads and terraces starting with existing contours

Know how to interpret and extract data from grading plans that have existing and proposed contours

**Cut and Fill**

Know how to delineate areas of cut and fill from grading plan

Know the three methods for calculating earthwork volume and the condition under which each is used

Know how to get extract the data needed to calculate earthwork volumes from grading plans

Know how to calculate earthwork volume using end area method, contour area method and the burrow pit method as appropriate