Field Methods Assignment 01 – Make a stick map via “pace and compass” v2, Fall 14

Location: NJCU

Objective: Link a series of lines with bearings and distance together to make a “stick map” of part of NJCU’s central courtyard.

Suggested procedure:
- Split into teams of 3 (self-selected or suggested)
- Set up a 100-foot tape on central courtyard
- Each team member determines their unique value of “feet per pace” for distance measurement (use 100 ft tape)
- Each team member determines the “declination” (compass bearing) of the tape, in either 360° units or Quadrant units, depending upon type of Brunton compass used
- Place survey flags at identified (A,B,C,D,etc) map area corners
- Delegate tasks in the group:
  - One (or more) members pace – do several times & take the average
  - One member (at least) takes notes
  - One member (or more as a “check”) makes a sketch map as you go

Work products due from the team.
- Short writeup, indicating the nature of the task, the team members, how task was approached, who did what, what you estimate your errors (sources and magnitude) to be, and what about this exercise you would change.
- Good field notes documenting the line segments as follows:

<table>
<thead>
<tr>
<th>Line segment</th>
<th>Bearing (360 or Quad)</th>
<th>Distance (ft)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A to B</td>
<td></td>
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<td></td>
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<tr>
<td>B to C</td>
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<tr>
<td>C to D</td>
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<tr>
<td>D to A</td>
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<tr>
<td>Etc if needed</td>
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</tbody>
</table>
- A map at appropriate scale (determined w/instructor in Fall 2014 as 1:240 [1 in = 240 ft]), including:
  - North arrow
  - Scale bar.

DUE: As specified in Syllabus