GTCM Gateway Course Development Workshops

Purpose—design two gateway course outlines and collecting corresponding educational resources; based upon the newly published Geospatial Technology Competency Model (GTCM).

Research questions—the workshop is part of a larger effort to implement the new GTCM in two year college geospatial technology programs nationwide. For the purpose of this workshop, however, we will focus on the following research questions:

1. *What are the essential elements that, at a minimum, should be included in a gateway awareness course for general education?*
2. *What are the essential elements from the GTCM that, at a minimum, should be included in a gateway applied skills based technology course?*
3. *To what level of depth do we teach these essential elements?*

Methodology—the challenge of these initial workshops revolves squarely around the thorough understand of the new GTCM and how it impacts two year college geospatial technology academic programs. Given this is the first round in what will be a multi-year effort to gradually implement the GTCM into academic programming, we must limit its scope and reach consensus among educators on the best approaches to using the GTCM. We propose the following methods to achieve this:

1. Limit the workshop to two year college geospatial educators with proven track record of geospatial technology curriculum development as evidenced by: a) minimum 5 years experience and b) robust geospatial technology certificate (or higher) program.
2. Perform pre-workshop preparation and awareness with participants.
3. Conduct pre & post-workshop assessment of participant awareness of the GTCM.
4. Conduct pre & post-workshop assessment of impact on gateway course content based upon the GTCM assessment(s) to determine how much, if any, the gateway course content changed as a result of the GTCM workshop.

Analytics—in order to develop a model gateway course, we must first come to agreement on a) what elements from the GTCM are essential in the course and b) to what level do we cover those essential elements during the course? For this, we need two Liker-like scales that answer:

1. *What elements from the GTCM are essential in a gateway course?*
2. *At what level of depth do we need to teach these essential elements?*