

6th Annual IAGI 2013 (Illinois Association of Geoscience Instructors) meeting, as a local workshop of SAGE (Supporting and Advancing Geoscience Education in Two-year colleges)

Joliet Junior College, 1 March 2013

Gallery walk results on Skills, Knowledge, and Attitudes students should have to succeed at transfer university or in workforce: (ranked in order of importance as voted on by workshop participants)

SKILLS

- 1) Mindful reading and critical thinking
- 2) Communication (verbal and written) of the results of their field experiences or analysis of data
- 3) Field observations
- 4) Problem solving and problem finding using the scientific method
- 5) Interpreting and making maps/charts/graphs; data analysis
- 6) Spatial awareness
- 7) Synthesizing new scientific information into pre-existing knowledge base (question results for validity)
- 8) Mechanical skills/aptitude (how things work)

KNOWLEDGE

- 1) Math (college algebra minimum) & chemistry (transfer level)
- 2) General geographic knowledge
- 3) Human impacts and dependency
- 4) Scientific literacy (vocabulary)
- 5) Quantitative methods
- 6) GIS
- 7) Nature of science
- 8) Basic geosciences (defined by discipline)
- 9) Literacy and numeracy (statistics)

ATTITUDE

- 1) Personal responsibility
- 2) Curiosity – active, not passive; willingness to think about it and not just Google it
- 3) Self-motivation
- 4) Self-confidence (absence of fear of math/science)
- 5) Openness to study: without distractions, without rote memorization
- 6) Outdoorsy
- 7) Cooperation
- 8) Time management
- 9) Education is more than entertainment