Q1. What computing-related topics or skills are essential for your students to be competitive in their field?

- Programming skills (which language(s))? Computational concepts? (See Survey)
  - Tagging
    - Text markup, XML, XSLT, metadata tagging, intellectual patterns (mined)
  - Character encoding
    - UTF-8
  - Programming languages
    - Python
  - Scripts
    - SQL, PHP
  - Want students to know more than just “access” points
    - Also how those information access points work
    - Also the limitation of systems used
    - How the Internet works? How to share data
  - CS can help students know the “space” better
Q2. How would a CS1 course improve your curriculum?

  - Depends on how it’s designed.
  - Collaborative projects
    - tangible products on “portfolios”
  - Help with accreditation,
  - Help with outreach to K-12
  - Better prepare students for their career
  - Definitely has research potential
Q3. If a CS1 course is properly designed to meet your needs, do you see the course becoming a required course in your department? If yes, when?

– Perhaps a “digital humanities” minor!
– Joint projects
Q4. What would be your concerns about whether your students could do well in a CS1 course?

– Math background (algebra/trigonometry)?
  • Can be addressed/remedied

– Student motivations? Student mis/perceptions?
  • Course has to be designed well
  • Self-efficacy
  • Rationale
    – Relevance to the world, Avoid getting left out of the decision making process, Exposed to interdisciplinary content
    – Better career possibilities, dual majors, minors
    – Better portfolios
Q5. What are the math requirements for your students? When do they usually complete those requirements?

– This is to help us determine the depth and breadth of the CS topics to be taught in CS1

• No particular “boundaries”.
• CS1 can be taken by most students at all levels
• Perhaps a placement exam to direct students to most appropriate course
Q6. What are the discipline-specific topics that you would like to see included in CS1?

– As lab assignments, as lectures, as homework assignments?
– Database, Matlab, Internet programming, software tools?
  • Tagging
    – Markup, metadata
  • Data organization
    – Information structure, relational database
  • Copyright issues
  • Data collection, creation, processing algorithms
  • HCI, GIS
Q7. What kind of computing resources do you have at your department?

- Open labs for students to do programming hw? Or lab assignments?
  - Libraries have machines
  - Special language lab has computers
  - Blackboard CMS
  - Testing Centers (Burnett)

- System admin?
  - Not much

- Available for CSE to install program compilers?
  - Yes
Q8. Are you interested in participating in the TI grant later? If yes, role?

– As Co-PIs/Senior Personnel
– Help write the proposal? Help with course development? Co-teaching? Help promote the project? Recruitment of students?
  • YES!!!!
  • Andrew Jewell, Brett Barney, Eyde Olson, Dee Ann Allison, Sandy Scoffield, Russ Ganim
  • Also well represented with Stephen Ramsay and Will Thomas
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