Breakout Session Report

CS1-Arts
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<tr>
<th>Name</th>
<th>Affiliation</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Brian Moore</td>
<td>Music</td>
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<td>David Bagby</td>
<td>Fine &amp; Performing Arts</td>
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<td>Debra Meier</td>
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<td>Adam Wagler</td>
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<tr>
<td>Todd Jensen</td>
<td>Information Services</td>
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<tr>
<td>Ashok Samal</td>
<td>Computer Science and Engineering</td>
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Q1. What computing-related topics or skills that are essential for your students to be competitive in their field?

- Visual, Theater, Music, Theater
- Programming skills (which language(s))?
  - Objective C (may be OK): IPOD
  - Web technology (java script, html, css) (may be in the labs?)
- Computational concepts? (See Survey)
  - Data Abstractions: Variables, data structures
  - Process Abstractions: control structures, procedures
- Typical Assignment: Manipulation of a piece of art
- Creative Thinking
- Context (gaming: problem solving + computational thinking : Releases the latent abilities)
- Creation of data sets
Q2. How would a CS1 (or CS0) course improve your curriculum?

– Music Technology Minor : Critical
  • Lead to CS Minor
  • Computational thinking for production
    – Music, theatre, arts
  • How do you manage a business?
    – Complexity
  • Improved downstream courses
Q3. If a CS1 course is properly designed to meet your needs, do you see the course become a required course in your department? If yes, when?

– Music Tech Minors: First Year (10 students)
– Music: Recommended GenEd course
– Journalism: Recommended GenEd course
– Art, theatre: May be not
Q4. What would be your concerns about whether your students could do well in a CS1 course?

- Math background
  - High school algebra/trigonometry
- Student motivations? Perceptions?
  - Barriers may be overcome with creative advertisement
- What about a CS0 course (see Survey)
  - Not as suitable as CS1
- Not make CS1 too difficult
Q5. What are the math requirements for your students? When do they usually complete those requirements?

– One math course as a part of GenEd
Q6. What are the discipline-specific topics that you would like to see included in CS1?

– Collaborative Work

– Minimize lectures
  • More hands on in the lectures
  • Smaller classes

– Web technology (java script, html)
  • May be in the labs

– Databases
Q7. What kind of computing resources do you have at your department?

- Digital Media Equipment
  - Camera, scanners, media recorders
- 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?

<table>
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<td>Promote, lab access</td>
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<td>Debra Meier</td>
<td>Distance Education Online courses</td>
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<tr>
<td>Adam Wagler</td>
<td>Interested</td>
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<td>Todd Jensen</td>
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