2-Stage Reviews and Exams: Fun AND Effective

Jennifer Engels, HIGP; Daniela Böttjer-Wilson, CTE
Active classrooms reduce failure rates

Sousa, 2006
n=289, 81 groups, group > individual 83% of the time

How to design a 2-stage Review/Exam

• Base it on learning goals
• Explain why group exams are better to your students
• Optimal group size: 3-4
• Optimal group configuration: 1st random, then selected by prof
• Grading: e.g. 80% ind x 20% group
• All students have to agree
• The 2 exams should have identical content (group exam may be shorter)
Start on Day 1 with a 2-stage review!
Active learning benefits - students of color, students from disadvantaged backgrounds, and women in male-dominated fields even MORE!

Scott Freeman et al. PNAS 2014;111:8410-8415
Serve the state by attracting and retaining diverse undergraduates

<table>
<thead>
<tr>
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<th>% URM</th>
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<tbody>
<tr>
<td>Statewide</td>
<td>54%</td>
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<tr>
<td>Kapiolani CC</td>
<td>34%</td>
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<tr>
<td>UH Manoa</td>
<td>31%</td>
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<tr>
<td>SOEST</td>
<td>17%</td>
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(US Census & UH Institutional Research Office)