College Algebra and eGrade –
More Than Improved Grades
How did it all start?

### Fall Semester Grades

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
<th>Grades Assigned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997*</td>
<td>41 %</td>
<td>2156</td>
</tr>
</tbody>
</table>

* Last Fall semester of MAC 1102. Had to be taken (or exempted) by all students.

- We knew we needed a new approach; couldn’t continue to “blame the students”.
- Obtained information about Virginia Tech Math Emporium.
- Dr. Stiles’ vision for a different approach for us – delivery of problems over the internet – stay within our basic set-up.
- Software review – Fall 1998.
- Found WebTests (now eGrade) developed by John Orr – a mathematician at University of Nebraska, Lincoln.

| 1998* | 50 % | 2439 |

* First year of MAC 1105. No longer required for all students. Used a different cut-off for C-. 
• During Summer’99 developed problem bank (about 1200 items for College Algebra) and planned to run Pilot Project.

<table>
<thead>
<tr>
<th>Year</th>
<th>Regular Sections</th>
<th>CAI Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>35 %</td>
<td>1988</td>
</tr>
<tr>
<td>2000</td>
<td>31 %</td>
<td>2366</td>
</tr>
</tbody>
</table>

• Continued to improve and increase our problem bank. Now have almost 6000 items.
• 4 classrooms in HTL were converted to computer-equipped classrooms.

<table>
<thead>
<tr>
<th>Year</th>
<th>CAI %</th>
<th>CAI Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>24.3%</td>
<td>2605</td>
</tr>
</tbody>
</table>
What do we do?
• Lecture/Recitation format hasn’t changed. Recitations have changed.
• Students now actively involved. Time on Task!
• Immediate feedback when grade test/quiz.
• Required work outside of class.
Impact on Students?
• Doing more mathematics.

Impact on TA’s?
• Reduced work load.

Impact on Lecturers?
• Easier to set up a test.
• Feedback on objective missed.
• Exportable gradebook.

Critics?