Math 200 Section 207 - End-of-term Survey

1) Please enter your student number. *Note that your individual responses will not be passed along to your instructor and will not affect your course grades in any way. We ask for your student number to track completion and for research purpose only, so that your responses in other surveys can be matched to those here.*

______________________________________________________________________

2) Before this course (Sept 2012), how long have you *not* taken a math course?

   - Less than 6 months
   - 6 to 12 months
   - 12 to 24 months
   - More than 24 months

Additional comments
______________________________________________________________________

3) How many courses are you taking this term (including Math 200)?

   __________________________ courses

4) On average, how many hours do you spend on WeBWorK assignment every week?

   ____________________________ hours

5) On average, how would you rate the mathematical difficulty of WeBWorK problems relative to other problems in the course?

   - Much easier
   - A little easier
   - Comparable
   - A little harder
   - Much harder
   - Other (please specify below)

Additional comments
______________________________________________________________________

6) On average, how often is the syntax required to submit an answer to WeBWorK an obstacle in completing your assignment?

   - Never
   - Only happened once or twice
   - About once in every few assignments
   - Syntax is an issue in many assignment problems
7) After an assignment is due, do you go back and check the correct answers?
   - Almost always
   - Usually
   - Sometimes
   - Rarely
   - Almost never
   - Other (please specify below)

Additional comments

8) Do you go back and redo previous WeBWorK assignments when you study or review the course materials?
   - Almost always
   - Usually
   - Sometimes
   - Rarely
   - Almost never
   - Other (please specify below)

Additional comments

9) Please rate the extent to which you agree or disagree with the following statements about WeBWorK.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Strongly agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>WeBWorK problems are related to problems on tests and/or class examples.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>WeBWorK problems are good practice for solving problems on tests.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>The immediate responses I get from WeBWorK help me learn the course material.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>I often get frustrated with WeBWorK problems due to their mathematical difficulty.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>I often get frustrated with WeBWorK problems due to calculation/input errors (unrelated to syntax) I made.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>I often get frustrated by the particular syntax required to submit answers to WeBWorK.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>
10) If you were to take a similar course again, which homework option would you prefer? Assume each suggested option is worth the same percentage of your final course grade.

- Only WeBWorK assignments.
- A combination of relatively shorter WeBWorK assignments and short hand-in written assignments that are returned a week later.
- A combination of relatively shorter WeBWorK assignments and short in-class quizzes (in addition to regular midterm exams).
- Only written hand-in assignments that are returned a week later (possibly only part of them graded).
- Only short in-class quizzes in addition to regular midterm exams.
- No homework assignments or in-class quizzes but possibly an extra midterm exam.
- Other (please specify below)

Additional comments
______________________________________________________________________

11) Please tell us anything that you would like to see but is missing in WeBWorK or any suggestion that might improve your experience with WeBWorK if you are using it again in the future.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

12) Do you find your textbook useful?

- I find it very useful.
- I find it useful most of the time.
- I think it is OK.
- I don't find it very useful.
- I think it is useless.
- Other (please specify below)

Additional comments
______________________________________________________________________

13) Please rate the extent to which you agree or disagree with the following statements about in-class group activities.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Strongly agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>The group activities are difficult.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The group activities help me better understand the course materials.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The group activities trigger valuable discussions with my classmates.

The solutions to the group activities are useful for my study.

I wish to have more in-class group activities and less lecturing.

14) Please add any additional comment about the in-class group activities.

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

15) Please rate the extent to which you agree or disagree with the following statements about the supplementary materials posted on the blog.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Strongly agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplementary materials posted on a blog are easy to access.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>The supplementary materials on the blog are easy to follow/understand.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>The graphs provided in the supplementary materials are clearly drawn.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>The supplementary materials help me better understand the course materials.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>I use the supplementary materials when I study.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>I wish to have more of these supplementary materials throughout the course.</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

16) Please add any additional comment about the supplementary materials on the blog.

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

17) Which of the following topics do you think are particularly difficult to learn/understand? Please check all that apply.

- Vectors and their arithmetic (sum, dot product, cross product, etc)
- Equations of lines and planes
- Intersections and projections involving lines and planes
- Cylinders and quadric surfaces
- Functions of two variables and their geometric interpretations (surfaces, level
curves, etc)

- Functions of three variables and their geometric interpretations (level surfaces etc)
- Partial derivatives - calculations
- Partial derivatives - meanings and geometric interpretation
- Tangent planes and linear approximations
- Chain rule and implicit differentiation
- Directional derivatives and gradients - meaning and geometric interpretation
- Maxima and Minima
- Langrange Multipliers
- Double integrals - calculations
- Double integrals - determining boundaries of integration
- Double integrals - changing the order of integration
- Double integrals - polar coordinates
- Triple integrals - calculations
- Triple integrals - determining boundaries of integration
- Triple integrals - changing the order of integration
- Triple integrals - cylindrical coordinates
- Triple integrals - spherical coordinates
- Applications of integrals (mass, centroids, moment of inertia, etc)
- Other (please specify)

If you selected other, please specify

____________________________________________________________________________________

18) Please add any comment about the course that you feel are not captured by the questions above.

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________