Math 110 Midterm Survey - 2010-11

This is a survey of your attitudes and comments about the course. The completion of this survey will count towards your participation, but your individual responses will not affect your grade in any way and will not be accessible by the instructors.

This survey consists of five parts:

1. Your background
2. Lectures
3. Assignments
4. Quizzes/midterm
5. General comments

This survey should take about 10 minutes to complete. Please take this survey seriously as your responses will be used for the research about course improvement. If you have questions about the survey, please email Joseph Lo at qwlo@math.ubc.ca. This survey is part of the project with Math 110 supported by the Carl Wieman Science Education Initiative.

1) What is your UBC student number? (We ask for your student number to track completion and for research purpose, so that your responses in other surveys can be matched to those here. Your individual results will not be accessible to the instructors and will not affect your grades.)

____________________________________________________________

Your Background

2) What program are you in/ planning to get in (e.g. economics, biology, commerce, civil engineering, etc...)

____________________________________________________________

3) Why are you taking Math 110?

☐ Math 110 is the only Calculus I course I can take.
☐ I had an option to choose Math 100/102/104/180/184 but I decided to take Math 110.
☐ Other (please specify)

If you selected other, please specify

____________________________________________________________

4) Were you familiar with the following topics before covered in this course?

<table>
<thead>
<tr>
<th></th>
<th>New to me</th>
<th>Not familiar</th>
<th>Somewhat familiar</th>
<th>Familiar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

____________________________________________________________
5) How well do you think you understand each of the following topics so far?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Don't understand</th>
<th>Partially understand</th>
<th>Understand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic algebra (arithmetics/polynomials/fractions/radicals/equations)</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Exponents and logarithms</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Geometry</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Functions/graphs</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Inequalities</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Proofs (logics/implications/theorems)</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Limits</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Derivatives</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

6) Do you have general comments about the course materials?

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

Lectures

7) How often do you go to lectures?

○ Almost always (more than 80% of the time)
○ Usually (around 60% to 80% of the time)
○ Half of the time (around 40% to 60% of the time)
○ Rarely (around 20% to 40% of the time)
○ Almost never (less than 20% of the time)

8) What are the main reasons that make you not go to lectures? (Choose all that apply.)
No reasons. I always go.
8am is too early for me/4pm is too late for me.
The lectures don't help me understand the course materials.
I don't want to do class activities with my group members.
The lectures are too boring.
Other (please specify)

If you selected other, please specify
______________________________________________________________

9) What is the pace of the lectures?
   - Too fast
   - Reasonable
   - Too slow

10) The lectures are clearly presented.
    - Strongly agree
    - Agree
    - Neutral
    - Disagree
    - Strongly disagree

11) The lecture notes are clear and easy to follow when I review them on my own.
    - Strongly agree
    - Agree
    - Neutral
    - Disagree
    - Strongly disagree

12) The lecture notes explain topics discussed in the textbook well.
    - Strongly agree
    - Agree
    - Neutral
    - Disagree
    - Strongly disagree

13) What do you think about the amount of examples given in lectures?
    - Not enough.
    - Just right.
    - Way too much. I would rather spend more time on other things. (Please specify below.)

Additional comments
______________________________________________________________
14) The examples given in lectures are clearly explained.
   - Strongly agree
   - Agree
   - Neutral
   - Disagree
   - Strongly disagree

15) The instructor makes the lectures interesting.
   - Strongly agree
   - Agree
   - Neutral
   - Disagree
   - Strongly disagree

16) Group activities help me understand the course materials better.
   - Strongly agree
   - Agree
   - Neutral
   - Disagree
   - Strongly disagree

17) What do you think about the pace of the class activities?
   - Too fast
   - Reasonable
   - Too slow

18) The clicker questions help me understand the course materials better.
   - Strongly agree
   - Agree
   - Neutral
   - Disagree
   - Strongly disagree

19) I normally answer the clicker questions seriously.
   - Strongly agree
   - Agree
   - Neutral
   - Disagree
   - Strongly disagree

20) Do you preview lecture materials before going to classes?
   - No.
   - Only if pre-reading materials are assigned.
   - Yes, even if pre-reading materials are not assigned.
21) Do you communicate with your group members when you are not in lectures/workshops or when you are not doing group assignments?

☐ Regularly
☐ Occasionally
☐ Never or almost never

22) Do you have general comments about the lectures?

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

Assignments

23) The assignment problems are related to the lectures.

<table>
<thead>
<tr>
<th></th>
<th>Strongly agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
<th>Strongly disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A (Webwork)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part B</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part C</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

24) What do you think about the level of difficulty of the assignments?

<table>
<thead>
<tr>
<th></th>
<th>Very difficult</th>
<th>Difficult</th>
<th>Reasonable</th>
<th>Easy</th>
<th>Very easy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A (Webwork)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part B</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Part C</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

25) What do you think about the overall length of the assignments?

☐ Way too long
☐ A bit long
☐ Reasonable
☐ A bit short
☐ Way too short

26) On average, how many hours do you need to spend doing the assignments each week?
27) When do you usually start doing your assignments?

- As soon as they are posted.
- 3 to 5 days before the due date.
- 2 days before the due date.
- The day before the due date.
- I don't really do the assignments.

28) How do you do your assignments?

- I usually do them on my own not with other people.
- I usually do them with my group members.
- I usually do them with my other friends.
- I usually do them with my tutor.
- I don't really do the assignments.
- Other (please specify)

29) What do you do if you have trouble doing the assignment problems?

<table>
<thead>
<tr>
<th>Action</th>
<th>Always</th>
<th>Usually</th>
<th>Sometimes</th>
<th>Rarely</th>
<th>Never or almost never</th>
</tr>
</thead>
<tbody>
<tr>
<td>I will look for hints from the textbook/lecture notes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I will look for solutions to similar problems.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I will ask my friends/group members.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I will ask my instructor/TA/tutor.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I will forget about it and continue with the next problem.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

30) Do you have general comments about Webwork?
Do you have general comments about the assignments?

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

Quizzes/ midterms

32) Individual quizzes at the beginning of the workshops help me keep up with the course materials.

☐ Strongly agree
☐ Agree
☐ Neutral
☐ Disagree
☐ Strongly disagree

33) Doing the quizzes again in groups immediately after the individual quizzes help me understand the course materials.

☐ Strongly agree
☐ Agree
☐ Neutral
☐ Disagree
☐ Strongly disagree

34) I have a clear idea on what topics will be covered in the midterm beforehand.

☐ Strongly agree
☐ Agree
☐ Neutral
☐ Disagree
☐ Strongly disagree

35) What do you think about the length of the midterm?

☐ Very long
☐ A bit long
☐ Reasonable
☐ A bit short
☐ Very short
36) How was the level of difficulty of the midterm compared to what you expected?

- Much more difficult than what I expected.
- Somewhat more difficult than what I expected.
- Similar to what I expected.
- Somewhat easier than what I expected.
- Much easier than what I expected.

37) Do you have general comments about the quizzes/ midterm?

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

General comments

38) Do you have general comments about the workshops. (You will have a more detailed workshop survey later in the term.)

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

39) Do you have general comments about workshop TAs?

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_______________________________________________________________________________
_______________________________________________________________________________

40) Do you have general comments about the instructor?

_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

41) Do you have general comments about the course?
42) Did you spend more than 15 minutes doing this survey?

☑ Yes
☑ No

Thank you for your responses!

The next survey will be given in December, around the last week of classes in Term 1.