

PC/CP200 Electronics Laboratory I  
Lab Evaluation Results  
Wilfrid Laurier University

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Fall 2013

**This evaluation for the purpose of evaluating my teaching methods and your impressions of the course. It is anonymous and you can omit any question(s) you don't wish to answer.**

## **General**

Choose the answer which best expresses your feelings about the course.

1. The lecture quizzes were
  - 8%** at a reasonable level of difficulty
  - 17%** a good test of important concepts
  - 58%** both of the above
  - 0%** neither of the above
  - 17%** I don't remember the lecture quizzes.

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2. The online quizzes were
  - 0% good preparation for the lecture quizzes
  - 42% a reasonable requirement for the marks assigned
  - 58% both of the above
  - 0% neither of the above
  - 0% I don't remember the online quizzes.
  
3. The group tasks in the lecture were
  - 8% interesting
  - 42% helpful for clarifying important concepts
  - 33% both of the above
  - 0% neither of the above
  - 17% I don't remember the group tasks.
  
4. The lab tests were
  - 8% at a reasonable level of difficulty
  - 25% a good test of important concepts
  - 67% both of the above
  - 0% neither of the above
  - 0% I don't remember the lab tests.
  
5. Being required to demonstrate things in the lab was
  - 8% useful to summarize important sections of each lab
  - 17% a good way to have part of the lab mark assigned
  - 75% both of the above
  - 0% neither of the above
  - 0% I don't remember demonstrating anything in the labs.

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6. Keeping a lab notebook was

**42%** a good idea because it kept all important information in one place

**0%** easy to learn to use productively

**42%** both of the above

**8%** neither of the above

**8%** I don't remember the lab notebook.

7. Using the lab notebook for quizzes and tests was

**17%** helpful for the quizzes and tests

**0%** good for helping to know what to write in the notebook in the labs

**50%** both of the above

**8%** neither of the above

**25%** The notebook wasn't really needed for the tests or quizzes.

8. The lab notebook summaries were

**33%** a useful exercise

**0%** helpful for tests and quizzes

**42%** both of the above

**25%** neither of the above

9. The lab web page was

**25%** organized and easy to follow

**8%** better than having a printed lab manual

**58%** both of the above

**8%** neither of the above

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10. The lecture notes posted online were

**83%** helpful to follow

**0%** more useful than the actual lecture

**8%** both of the above

**8%** useless

**0%** unnecessary

11. The lectures

**33%** provided *useful* background for the labs

**17%** provided *sufficient* background for the labs

**42%** both of the above

**8%** neither of the above

12. In some lectures, I showed videos as part of the lecture. What did you think of that?

**67%** The videos were usually a good addition to the lecture.

**8%** The videos were usually a waste of time.

**17%** The videos were usually good, but could have been watched some other time.

**8%** I don't remember any of the videos.

What did you think about the extra resources on the web site (links, videos, etc.)? For each item, use the following scale:

- (a) almost never
- (b) rarely
- (c) fairly often
- (d) almost always

13. **8%** **25%** **58%** **8%** I *clicked on* the optional links.
14. **8%** **17%** **42%** **33%** I *was helped by* the optional links.
15. **25%** **25%** **42%** **8%** I *watched* the videos.
16. **25%** **8%** **33%** **33%** I *was helped by* the videos.

These labs used a *blended learning* approach, where you did quizzes online *in addition to* work in the lab. The following questions refer to this way of doing labs.

17. Have you heard of or experienced blended learning before?
- 42%** Yes, I have other courses doing it (or have had them previously).
- 8%** Yes, I've heard of it, but never done it other than this.
- 50%** No, I've never heard of it.

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18. Did the online quizzes help you *remember* important points from the lab?

**58%** Yes, almost all of the quizzes helped that way

**33%** Yes, one or two quizzes helped that way.

**8%** Not really; I would have remembered those points without the quizzes.

**0%** Not really; even after the quizzes I didn't get those points.

19. Do you think it would have worked better to read the material and do the quizzes *before* the lab instead?

**17%** Yes, that would have speeded up the lab.

**17%** Yes, that would have made the point of the lab more clear.

**67%** No, it would have been really hard to understand the material without doing the lab first.

**0%** The quizzes and lab seemed pretty much unrelated.

20. Did the online quiz help you *understand* the important points?

**25%** Yes; answering the questions clarified what was important.

**8%** Yes; correcting my mistakes in the quiz helped me remember.

**58%** both of the above

**8%** neither of the above

21. Including reading documents or watching videos and doing the online quizzes, about how long did you spend related to each quiz?

**33%** Less than 15 minutes

**58%** Between 15 minutes and 1/2 hour

**8%** Between 1/2 hour and 1 hour

**0%** More than 1 hour

**0%** It varied greatly, from a few minutes to more than 1/2 hour.

22. Many topics in the lab had written explanations on the web page as well as videos or screencasts. Which of these did you find more useful most of the time?

**17%** I found the written explanations much more useful.

**8%** I found the videos much more useful.

**33%** I found them both about equally useful (or it depended on the topic).

**42%** I hardly ever watched the videos; I usually just read the explanations on the web page.

**0%** I hardly ever read the explanations on the web page; I just watched the videos.

23. The workload for this course was

**100%** about right for a quarter credit course.

**0%** too heavy for a quarter credit course.

**0%** too light for a quarter credit course.

**0%** *much* too heavy for a quarter credit course.

**0%** *much* too light for a quarter credit course.

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For the following questions, use the following scale to indicate how much you agree with the statement that you feel comfortable with the tasks in question:

- (a) disagree strongly
- (b) disagree
- (c) neither agree nor disagree
- (d) agree
- (e) agree strongly

24. **0% 0% 0% 8% 92%** I feel comfortable using a digital meter to measure *voltages*.
25. **0% 0% 0% 8% 92%** I feel comfortable using a digital meter to measure *resistances*.
26. **0% 0% 0% 17% 83%** I feel comfortable using a digital meter to measure *currents*.
27. **0% 0% 17% 42% 42%** I feel comfortable using a digital meter to measure *capacitance*.
28. **0% 0% 0% 33% 67%** I feel comfortable using an oscilloscope to measure *voltages*.
29. **0% 0% 0% 17% 83%** I feel comfortable using an oscilloscope to measure *period and frequency*.
30. **0% 8% 8% 17% 67%** I feel comfortable using a function generator to produce *specific waveforms*.
31. **0% 0% 8% 25% 67%** I feel comfortable *using colour codes* to identify resistors.
32. **0% 0% 0% 33% 67%** I feel comfortable *wiring* a circuit from a schematic diagram.
33. **0% 0% 17% 33% 50%** I feel comfortable *checking* a circuit to see if it matches a schematic diagram.

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34. **0%** **8%** **33%** **25%** **33%** I feel comfortable *comparing* a device's performance with the datasheet to see if it meets the manufacturer's specifications.

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35. Part of this course focused on *DC circuits*.
- 17% I feel comfortable with resistors (including resistive sensors), voltage dividers, etc.
  - 8% I think studying that was worthwhile.
  - 75% Both of the above are true.
  - 0% Neither of the above are true.
36. Part of this course focused on *other components*.
- 25% I feel comfortable with capacitors and diodes (including LEDs) and understand their effects in circuits.
  - 8% I think studying that was worthwhile.
  - 67% Both of the above are true.
  - 0% Neither of the above are true.
37. Part of this course focused on *logic families*.
- 8% I feel comfortable with concepts like voltage and current limits, propagation delay, and different types of outputs for gates.
  - 33% I think studying that was worthwhile.
  - 58% Both of the above are true.
  - 0% Neither of the above are true.
38. What do you think about the split between theory and practice in this course?
- 0% The course has too much theory.
  - 0% The amount of theory is OK, but it's not clear how this will fit with other courses now or in the future.
  - 25% The course is too much practice and not enough theory.
  - 0% The amount of practical material is OK, but it's not clear how this will fit with other courses now or in the future.
  - 75% The mix of theory and practice seems about right.

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For the following questions, use the following scale to indicate how much weight you think should be placed on each of the components in the final course grade:

- (a) nothing
- (b) 5 or 10%
- (c) 15 or 20%
- (d) 25 or 30%
- (e) more than 30%

39. 0% 67% 17% 17% 0% *Lecture quizzes*
40. 8% 92% 0% 0% 0% *Online quizzes*
41. 25% 58% 17% 0% 0% *Group exercises in lecture*
42. 0% 17% 58% 17% 8% *Lab demonstrations*
43. 0% 33% 58% 8% 0% *Lab notebooks and postlabs*
44. 0% 0% 17% 58% 25% *Lab tests*
45. 83% 0% 0% 17% 0% *A written final exam (which doesn't exist now)*
46. **In order to improve teaching beyond my own courses, I'd like to be able to share the results of these evaluations with other instructors, students, etc. May I have your permission to do that?**
- 83% **Yes, I'd be glad if any improvement could come from this.**
- 17% **Yes, this is anonymous enough that I don't mind how the results are used.**
- 0% **No, this isn't anonymous enough for me to be comfortable with the results being shared.**
- 0% **No, even though this is anonymous I don't want the results to be shared.**