FALL 2008
Lab Survey
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**Comments**

1. There isn't that much instruction and assignments are posted with too little information.
2. ME 100L needs to be re-written
3. Some of the designs we’re making are of different model sets, requiring us to improvise
4. Seems like everyone is going at this blind
5. Our groups is lacking experience that seems to be expected of us
6. They should contain more meat as in programming constructing. They are really amateur. Give us some problem to fix like a maze or robot must do blank…each day or every other day
7. Simpler robots
8. Tell us what we are suppose to be doing
9. The lecture is focuses on fortran programming and skills needed as an engineer. The lab is focused on building a sumorobot
10. Lecture and Lab: completely unrelated
11. The only thing the lab and lecture have in common is programming
12. Cook's forcing us to learn fortran, there's no textbook to read on, and the lab is limited to mindstorm software for the programming. We didn't even follow the week to week assignments posted on the web 100%.
13. Lecture is for fortran 90
14. They barely relate
15. Our lectures deal with programming and physics. The have absolutely nothing to do with eath other
16. Speak more clearly, explain assignments better.
(4) Mr. Babu is great
(5) Check equipment before hand out to students
(5) The stuff works
(5) Our NXT brick has not worked multiple times
(5) Not enough parts to complete experiment
(6) More parts
(6) More equipment
(6) There are some parts missing in some of the kits.
(6) Each group should have 2 kits.
(6) You are missing pieces for experiments
(6) More parts especially is we are trying to build a mystery machine
(6) Expandibility
(6) Fine
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Comments

(1) Lab manual?
(1) Links on the website are not active frequently. At this point, the assignments don’t coincide on the website with the class. Assignment requirements are also vague.
(1) Only problem is HW descriptions are vague. Most people seem to not understand it.
(2) Really fun.
(2) The class ends right when we get done with our work so the timing is perfect.
(2) Length is ok, content is lacking
(2) Long and unstructured
(3) Lecture does not coincide with lab at all
(3) There isn't much as far as lecture material. Sometimes, I am confused about our daily tasks. More lecture time or examples given would be helpful.
(3) We're learning fortran and beam structure in the lecture and robotics in the lab.
(3) The lecture is ME100 lecture is about programming fortran, not lego mindstorm.
(3) Don't really lecture a lot but it's straightforward
(4) Help more
(4) While receptive to questions, I don’t think our instructor offers much help. I would like more examples or suggestions on how to improve experiments or designs
(4) Not a lot of teaching is done.
(5) Everything works
(5) They are legos so I guess they work
(6) We need tracks for our badass robot, make the beast into a tank.

(6) The lab in general is not structured well. Assignments are not clear and the website is confusing.

(6) Some NXT parts are missing from the lego set. Some groups have more parts than others.

(6) Lots of missing parts.
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Comments

(1) Homework is poorly described. It’s hard to understand what is wanted.
(1) Not good direction
(1) Make new assignment website. Mauer’s website sucks.
(2) They challenge us to some degree.
(2) Spend more time on our competition robot.
(2) Many are too long and arduous. Many are uninteresting
(3) Just basic programming, nothing about the things like forces.
(3) They are not related at all.
(3) In lecture we don’t learn about making robots, but all we do in labs is make robots
(3) All we do in ME100 is fortran 90 programming. That only helps us a little in understanding the program flow of Mindstorms
(3) ME is dealing with Fortran programming; the lab and class arent closely related in material!
(3) No one would finish what they were suppose. So its always moves to the next lab.
(4) She teaches well
(4) Use more teaching skills. Doesn’t know a lot about engineering
(4) Jackie is great. Explains everything throughly and helps when needed
(4) She will probably improve with experience
(4) She is well prepared and performance is satisfactory. However she treats individuals like they are in middle school and not in a college lab.
(5) The software crashes frequently
(5) Some of the sensors in my kit did not work
(5) A couple of our sensors were not working. We spent time rewriting the code but it was the hardware
The legos Mindstorm software always crashes on our team and does not allow us to save at times.

More space!

Most of the kits don’t have everything needed.

More legos

The McCad software doesn’t limit you to the legos that come with the robots

Be able to use the SSH to transfer files would help
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**COMMENTS:**

1) The book is good but the lecture notes leave something to be desired.
1) Slides do not teach you everything.
1) Not enough explanation
2) Deeper into the course, experiments take too long.
2) The lab time is a little late. Length/time wise is okay.
3) Directly from the book, therefore no problems.
4) He is hard to understand sometimes. He mumbles.
4) Hard to understand (verbally). The material is covered in the power points and makes up for this
4) Needs to be able to speak English! And speak at an understandable volume.
4) He basically reads the book and expects us to know the material already.
4) Needs to speak up
4) Hard to understand, doesn't speak loud enough.
4) Slow down, open AutoCad and show us how.
4) Instructor only flips through slides quickly.
4) Cover material better. Not just flip slides.
4) Lectures are pathetic
4) Needs to cover material better.
4) Hard to hear
5) All good
5) Computers work fine
## ME 130

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**Comments**

**COMMENTS:**

(4) He's funny and good at explaining. Always willing to help, and patient with mistakes.

(5) Could use better stuff. More funding!

(6) Surface Griner missing.
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**COMMENTS:**

(1) It can be given more details.
(1) Never had to look at it.
(1) Sometimes his problems don't seem to have enough dimensions to describe the object.
(1) Book is good.
(2) It's fine.
(2) Challenging
(2) The fact that any required ME design requirement class is only taught at night every semester and ends at 10 pm. It's unsafe for females to walk alone at night.
(3) Indeed
(4) Mr. Thota is wonderful. His patience is endless.
(4) He is great.
(4) He could speak louder so we can hear over background noise; i.e. fans and vents
(4) Needs to speak louder and more slowly! The computer lab has fans that make it noisy!
(4) Needs to speak louder!
(4) Speed up the lecture so the class does not las longer than scheduled.
(4) The instructor is doing a good job.
(4) He is very nice and opened willing to help.
(4) Very easygoing and professional
(5) Computers work great
(6) The computers are fast and the screens are big A++
(6) Great computer.
(6) Software for home use would be nice.
(6) Room needs air conditioning.
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COMMENTS:
(1) The lab manual could use some work. Doesn't always have equation to use. No always clear on direction.
(2) The length of time is just right
(2) The lab always seems to end short. Maybe in the future these could be expanded and not include additional testing procedures
(3) They do a good job. Room to improve
(4) He is a good lab instructor
(6) Could use some better chairs
(6) It seems that all the equipment satisfies the requirements of this lab. However, I am now in tune enough with ME labs to discuss the issue.
<table>
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**COMMENTS**
(1) The lab manual does not specify all parts concerned with grading. For example, I lost points for a graph that wasn’t specified in manual.
(2) The first lab was tedious.
(2) Good, except for first lab. Was too long.
(2) The first lab is rather long. Learning Excel as well if you don’t know it already is time consuming also.
(3) Got a bit faster, but not hard to keep up.
(4) Spends a little too much time explaining labs some of the time. Grades a bit tough.
(4) He is hard to understand sometimes. A very strong accent, but does okay.
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**COMMENTS:**
(4) He explains when asked to.
(5) All of them are working.
(6) Not enough equipment
(6) We could still use more equipment
(6) I would of liked seeing the combustion cycle.
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**COMMENTS:**

(2) Most were reasonable in length, but the second lab was extremely long.
(3) Hardly follows the lecture at all.
(4) He's helpful.
(5) Sometimes they don't work.
(6) I didn't circle all 5's for no reason. It's a good lab.
(6) It would be nicer if we had an actual computer lab to work in. Sitting on stools for 3 hrs. is not very comfortable.
### ME 337L - 002

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**COMMENTS:**

1. Manual assumes we are able to build circuits already
2. We haven't had a lab that has taken less than whole lab. No time to review what we've done.
3. Kinda long…
4. Lab and lecture should be closer. One to two weeks behind.
5. Sometimes ahead sometimes behind.
6. Some issues with NI ELVIS boards not working, but nothing hindering lab progression.
7. Too few computers.
8. Another computer station.
### ME 337L - 003

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**Comments**

1) Could discuss theory more
2) In the beginning, they were very detailed, but as it progressed the detail dropped
3) Not enough time on some labs and the lab is not open with enough time to come in and finish. Only open 1 hr. before each class and closed on Monday.
4) The experiments lag far behind the lecture by about two chapters.
5) Some of the material is outside the course material such as FFT.
6) Some of the material he did not understand (of the course) but as far as the lab itself is concerned, he was very helpful and knowledgeable
7) The instructor was very helpful and understand our problem when needed
8) Not helpful at all when I ask for help. The normal response is read the manual
9) He's great very helpful
10) Just not enough computers for size of class.
11) Some equipment faculty, ie NI ELVIS Board
12) Small room, there are not enough comp for all students and I wish the software was on the TBE A building computer lab.
13) Lab view in A311 please.
14) As long as the number of students equals the number of computers, it is okay.
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Comments

COMMENTS:
1) There are still errors in the lab, especially the pictures displacing the circuit wires.
2) I am sure that you are aware, this lab is very long. I hope in future reference that a short discussion in Excel is need.
3) Week behind lecture usually.
4) Excellent!
5) Printer does not work.
6) We need a printer.
### ME 380L - 001

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**COMMENTS:**
(1) Lab manual contains many typos/errors and sometimes very vague in its instructions
(1) Many calculations are very vague.
(1) For lab #6 K factor values should be given in manual
(1) Lots of mistakes or old information in lab manuals. Experiments were adequatley described.
(2) Lots of sitting around for lab groups or parts of the group that didn't take the data.
(2) Seems too boring as only one member per team can participate
(2) Some are extremely long
(3) The lab is ahead of the class
(3) The lab is so much farther ahead than the lecture
(3) Lab moves much faster than class so I must read ahead and try to understand lab concepts.
(3) It wasn't consistent with corse lecture. Many times it was ahead of the class portion, so it was hard to correlate.
(4) Sometimes hard to understand.
(4) Takes too long to receive graded reports back
(4) Hard to hear/understand
(4) Does not speak loud enough, cant hear
(5) Water hose is too erratic volumetric flow
(5) Some of it is pretty old and no longer provides accurate data.
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COMMENTS:
1) Lab manuals are detailed yet confusing at times and error prone and made even more difficult.
2) None of the instructions are thorough. Equations and units are constantly inaccurate.
3) Instructions are not very clear.
4) The lab manuals are hard to follow and have many mistakes.
5) Correct typos and make sure equations are correct (they currently aren't). T.A. was notified but we have seen no significant changes.
6) Sources and links lead to black links, formulas neglect important information in calculations, as well as faculty data.
The lab manual was written with grammatical and mathematical errors; valuable information was left out. Formulas and given units were often incorrect. It would help if those were example calculations. Needs more explanation. Revise the lab manuals.

Frequent typos in manual, plus lab poorly explained. Don’t really explain how to compile. Report to instructor’s specifications.

Not enough equipment for all to participate.

Scheduling can become rather lengthy due to bad directions.

Either run the experiment once for the whole class or run multiple labs on the same day so that we don’t just sit there for 3 hours. This is not uncommon in this lab.

Lab is reasonable in length and content is covered but better explanations for lab work is needed.

The two were completely out of sync. Usually by more than two weeks ahead of lecture.

Topics covered in lecture are not covered in class simultaneously.

A couple of labs have topics that are ahead of the experiment.

The timing of material is off.

We do everything in lab about 3 weeks before lecture. This should be reversed. (Changed to 3 weeks after lecture or less.

Lab follows some what close but it has become expected for variations in material covered by a chapter or two.

Lab is ahead of lecture.

The laboratory by the end of the section is 3 weeks ahead of class material.

The labs are usually ahead of class lectures.

They follow the lecture however, the lab is way ahead of the lecture...makes the lab hard to follow.

The lab moves much quicker than the class lectures but there is so much information it would be difficult to match them closely.

The lab reaches new material before the lecture.

Willing to answer questions when I have them.

Lab instructor do not know what they are doing and get angry when we ask questions.

I can't understand half of what he says, and the other half is ”I don't know; I'll find out and tell you next week.” He never tells us the next week.

aspects needer. Not just reading the lab manual and restating what can be read.

Lab T.A.'s were mostly unavailable and did not return emails in a timely manner. TA's did not have a good grasp of material. When asked about critical dimensions of an apparatus and coefficient of contraction the reply to me was that I needed to calculate Cd. I knew that, it was stated in the lab manual. They offered no other clarification. They got angry and give the class dirty looks if an accidental noise (chain creaking) was made. The TA's could not formulate sentences correctly in English, then proceeded to criticize our English and grammar skills. They had an unfriendly attitude during every lab and didn’t want to help.

Please explain more in every lab and not only in a few. Explain more about the lab report.

Very hard to understand; not well explained; takes up a lot of time to refer to other sources.

Not too student friendly. The lab TA's is very soft spoken and is easily irritated. Also his grading was unreasonable which is why the CE instructor took over.

It's tough to teach a lab with a poor manual, but I don't think their instructors were very clear. Also set up the lab beforehand! (Not during the lab).

Grading the first one was tough on the calculations portion student, but he's gotten a 100% more lenient since then.

Equipment works, sometimes and is not very accurate for measurements. 20% within true value is almost useless data.

To call the equipment non-functional would be an understatement. EVERYTHING LEAKS!

Some equipments are old and cause errors.

It has extremely large error and is rarely operated as described in the manual, but it isn't horrible.

Equipment introduce an extraordinary amount of error, needs to be maintained or replaced.

Something didn’t work properly.

Each experiment was plagued with errors because of old and over-used equipment.

No, equipments are not updated, some of the pipes leak, causing bad calculations.

For the most part the equipment works, but a lot of things leak.

More stations of the same experiments are needed to teach anything in this lab.

The theories do not match up well with the experiments. Lab manuals are constantly revised.
due to improper units, equatime, etc.
(6) The room is too small. And very difficult to listen because of the echo.
(6) Wind tunnel, sensors, computers…functioning.
(6) Could use more accurate measurement devices
(6) No some of the dimension of the equipment.
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**COMMENTS:**

(1) Just enough info but would like some further clarification on some.
(1) Since Lab #4, the notes have not been adequate to explain the experiments.
(1) Some of the labs are outdated and vague in asking what questions they want us to answer.
(3) Maybe I’m not following class.
(3) Sometimes the lab is ahead of the lecture
(3) The lecture and lab haven’t been together since the first or second week.
(4) Last 2 labs he did all the computer work so I had no clue what was going on.
(4) He can go over how he wants us to write labs the first lab day instead of the 5th. It makes it hard on our grades.
(5) Everything worked well except the VisSim program is a little user unfriendly.
(6) There are four computers for 16-20 students. UNLV can afford more for our lab fees.
(6) More set up so students can do the experiments in groups or themselves
(6) More computers
(6) More computers as about 3-4 people to 1 computer
(6) More computers would be better for the first 3 labs.
(6) Not enough equipment for students
<table>
<thead>
<tr>
<th></th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
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<tbody>
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<td>3</td>
<td>6</td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>2) The lab experiments are reasonable in length and content. If not, how can we change it?</td>
<td>3</td>
<td>9</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3) Do the lab experiments follow the lecture material. If not, please explain.</td>
<td>1</td>
<td>5</td>
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<td>1</td>
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<tr>
<td>5) The lab equipments are functional. If not, please explain.</td>
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<tr>
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<td>5</td>
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Comments

COMMENTS:

(1) No questions (specific) to answer on our report. So, the GA expects answers from us that weren't even asked
(1) Lack of working computers, only 1 computer connected to inst. 15 students crowding around one computer
(1) They are slightly outdated.
(1) Some manuals did not explain experiment or list equipments
(1) Labs 5 and 6 don't explain what the experiment is. Just the methods of analyzing data.
(2) Time is great. Amount of material matches time committed
(3) Lab directly follows most of the material. Motors are not completely covered in lecture.
(3) Labs are always off from the lectures. As long as the labs don't cover anything we haven't done in class, it's fine.
(3) Not in sync at all.
(3) As always, the lab is ahead of the lecture.
(3) Lab is a little ahead.
(3) Not really.
(4) Unclear on his expectations he needs to write out a syllabus and teach his lessons on the board because we can't understand him. Grades very harsh. So overwhelming that we don't even feel motivated to do our lab reports that turn out into novels after we complete the grueling task.
(4) The instructor has run the last few labs for us. There was zero student involvement. We cannot learn if the instructor does the lab we don't learn.
(4) Given what he has, which isn't must, it's ok. I can't understand him because he is talking into the board or into the monitor.
(4) He marked off points from lab reports. For things that he did not discuss. Things that he wanted in the lab reports but never mentioned.
(4) He is the best TA I have ever had! He goes the extra mile in preparation, grading, and availability.
(4) Very helpful and knowledgable
(4) Very understanding and helpful
(5) Not all equipment are functioning
(5) One station for 10+ students makes things difficult.
(5) Having more than 4 computers for 16 students is a necessity in a lab!
(5) The equipment of this lab is pitiful. For many of the experiments the whole lab, 15-20 students, are crowded around one computer.
(5) Due equipment with only one computer monitor for all students to look at makes for an uncomfortable setting. Plus it's hot as hell in lab classes!
(6) Good Gas
(6) More equipment. At least proportional to the number of students.
(6) About 10 computers, workspace, a clean white board to see what's written on it.
(6) Need more computers
(6) Should be more computers in the lab so the class is not crowding around one machine.
(6) Need more computers
(6) More stations
(6) One computer to conduct experiments. Students are not exposed to the experiment adequately.
(6) More computers and stations for all experiments.
(6) Need more computers and stations.
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**Comments**

**COMMENTS:**

1. Lab notes would help a lot.
2. Too long sometimes
3. Not at same time
4. Lab experiments a bit faster then lecture
5. Little to no instruction
6. More PCs, instruments
7. Not enough computers
8. Need more computers
9. Needs more computer workstations
10. More stations
11. More computers/experiments
12. Not enough computers