

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

What's the point of these labs?

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What is the purpose of the labs?
Where do I get the lab information?
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Why are we here?

What's different this term?
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How do I survive the lab report?

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Why are we here?

- PC131 labs introduced the *research process*;

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- PC131 labs introduced the *research process*;
PC132 labs will *expand on that*.

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- PC131 labs introduced the *research process*;
PC132 labs will *expand on that*.

As in PC131, this process is not specific to this course;

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- PC131 labs introduced the *research process*;
PC132 labs will *expand on that*.

**As in PC131, this process is not specific to this course;
it isn't even specific to physics**

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- Using **graphs** in labs -

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- Using **graphs** in labs -
linearizing equations to produce straight line graphs

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graphing and least squares fitting with a spreadsheet

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including determining *uncertainties* from graphs

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As in PC131, the finished report will illustrate the entire research process and how it leads to answering the research question(s).

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The *specific* experiment isn't that important;

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As in PC131, the finished report will illustrate the entire research process and how it leads to answering the research question(s).

The *specific* experiment isn't that important; **its value is to illustrate the process.**

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There are 3 types of learning objectives:

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There are 3 types of learning objectives:

① Conceptual

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- 1 Conceptual
understanding certain ideas

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- ② Practical

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① Conceptual

understanding certain ideas

② Practical

applying knowledge to specific “real-world” tasks

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- ① Conceptual
understanding certain ideas
- ② Practical
applying knowledge to specific “real-world” tasks
- ③ Communication

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② Practical

applying knowledge to specific “real-world” tasks

③ Communication

presenting information and results in formats which are typical in professional settings

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Learning Objectives

There are 3 types of learning objectives:

- ① Conceptual
understanding certain ideas
- ② Practical
applying knowledge to specific “real-world” tasks
- ③ Communication
presenting information and results in formats which are typical in professional settings

Different types of learning objectives often lead to different types of assessments.

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Conceptual Learning Objectives

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Conceptual Learning Objectives

Important ideas to grasp include:

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Conceptual Learning Objectives

Important ideas to grasp include:

- 1 Identifying linear relationships between variables in an equation

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Conceptual Learning Objectives

Important ideas to grasp include:

- ① Identifying linear relationships between variables in an equation
- ② Recognizing the significance of whether the scatter of points on a graph is large or small

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Conceptual Learning Objectives

Important ideas to grasp include:

- ① Identifying linear relationships between variables in an equation
- ② Recognizing the significance of whether the scatter of points on a graph is large or small
- ③ Suggesting improvements to an experiment, based on graphical analysis

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Practical Learning Objectives

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Practical Learning Objectives

Tasks to become familiar with include:

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Practical Learning Objectives

Tasks to become familiar with include:

- 1 Graphing data with error bars

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Practical Learning Objectives

Tasks to become familiar with include:

- ① Graphing data with error bars
- ② Performing least squares fits on linear data

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Practical Learning Objectives

Tasks to become familiar with include:

- ① Graphing data with error bars
- ② Performing least squares fits on linear data
- ③ Determining uncertainties in the slope and y-intercept of linear graphs, based on whether the scatter of points is large or small

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Communication Learning Objectives

Professional forms of communication include:

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Communication Learning Objectives

Professional forms of communication include:

- 1 **Writing a professional lab report, incorporating x-y graphs and graphical analysis**

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- Read “*Theory*” section of lab manual

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Before the lab

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OR

Read alternative document

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Watch screencast (video) of alternative document

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Watch screencast (video) of alternative document
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things which have to be done *before* the lab

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things which have to be done *before* the lab

These ensure that you are *prepared* for the lab.

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- In-lab **tasks** -

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- In-lab **tasks** -
things which have to be done *during* the lab

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- In-lab **tasks** -
things which have to be done *during* the lab
- In-lab **questions** -

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- In-lab **tasks** -
things which have to be done *during* the lab
- In-lab **questions** -
questions which have to be answered *during* the lab

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What happens each week? (during the lab)

During the lab

- In-lab **tasks** -
things which have to be done *during* the lab
- In-lab **questions** -
questions which have to be answered *during* the lab

These have to be completed *while you have the equipment in front of you.*

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- Post-lab **tasks** -

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- Post-lab **tasks** -
things which can be completed *after* the lab

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things which can be completed *after* the lab
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What happens each week? (after the lab)

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- Post-lab **tasks** -
things which can be completed *after* the lab
- Post-lab **questions** -
questions which can be answered *after* the lab

These often require *further analysis* which can be done outside the lab.

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- The **lab report** -

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- The **lab report** -
it's worth *at least* 30% of your lab grade

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- The **lab report** -
it's worth *at least* 30% of your lab grade
it's worth *at most* **50%** of your lab grade

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What is the most important lab requirement?

- The **lab report** -
 - it's worth *at least* 30% of your lab grade
 - it's worth *at most* **50%** of your lab grade

That's right; 50%!

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- It won't be due until the 4th lab.

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- *If you're not happy with the mark, you can resubmit it at your last lab period.*

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- *If you're not happy with the mark, you can resubmit it at your last lab period.*

There will be feedback on it which can help you improve it.

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- It won't be due until the 4th lab.
- *If you're not happy with the mark, you can resubmit it at your last lab period.*
There will be feedback on it which can help you improve it.
- *The better your mark on the final lab report, the more it will count toward your final lab grade.*

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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There will be feedback on it which can help you improve it.
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Since the lab report puts together all that you've learned in the process, it can replace lower marks on exercises which you got while learning the process.

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Where do I get the lab information?

- The website -

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denethor.wlu.ca/pc132

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Everything for the labs is there.

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There is a lot of stuff on the webpage, so spend some time to become familiar with how it is laid out.

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- Do I need a laptop?

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All of the software we use is available in the computer labs and/or has free alternatives.

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- Can I use a laptop?

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You can save trees and possibly time.

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Wireless access in the labs means that the website and thus everything needed for the labs is available if you're using a laptop. Windows, Mac, and Linux should all be fine.