


Introduction To CPSC 219

James Tam

James Tam

Administrative (James Tam)



- **Contact Information**

- Office: ICT 707 
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- **Office hours**

- Office hours: (Monday 2 – 3 PM, Tuesday 11 AM – noon right after my Monday CPSC 231 lecture and my Tuesday CPSC 219 lecture). If I'm not in my office give me a few minutes or check the lecture room.
- Email: (any time)
- Appointment: email, phone or call
- Drop by for urgent requests (but no guarantee that I will be in if it's outside of my office hours!)



← ←   My Office

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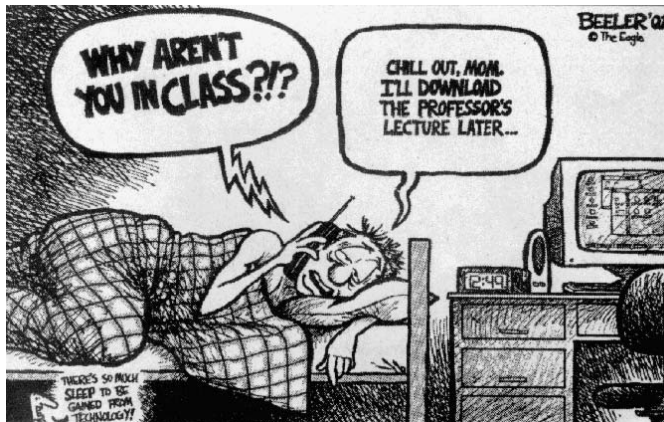
Course Resources

- Required resources:
 - Course website: <http://pages.cpsc.ucalgary.ca/~tamj/219> (Get the notes off the course webpage before lecture)
- Recommended but not required:
 - "*C Programming Language*" by Brian W. Kernighan , Dennis M. Ritchie (Prentice Hall)
 - "*Introduction to programming with Java: A problem solving approach*" by John Dean and Ray Dean (McGraw-Hill)

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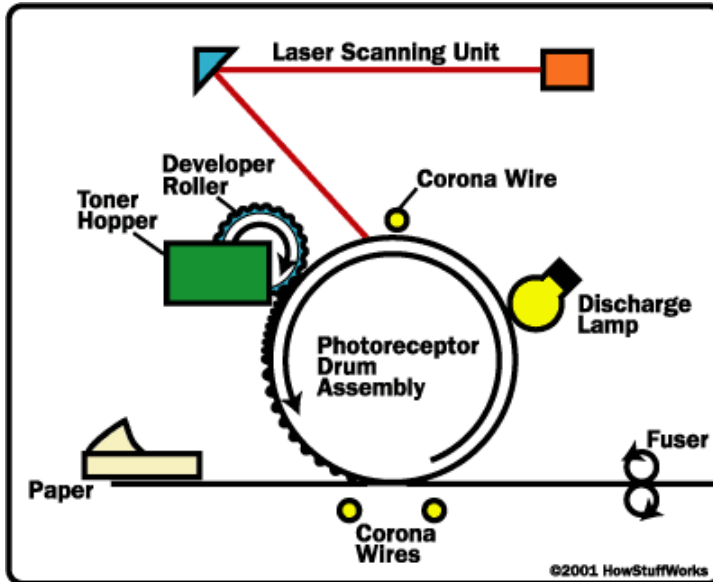
How To Use The Course Resources

- They are provided to support and supplement this class.
- Neither the course notes nor the text book are meant as a substitute for regular class attendance.



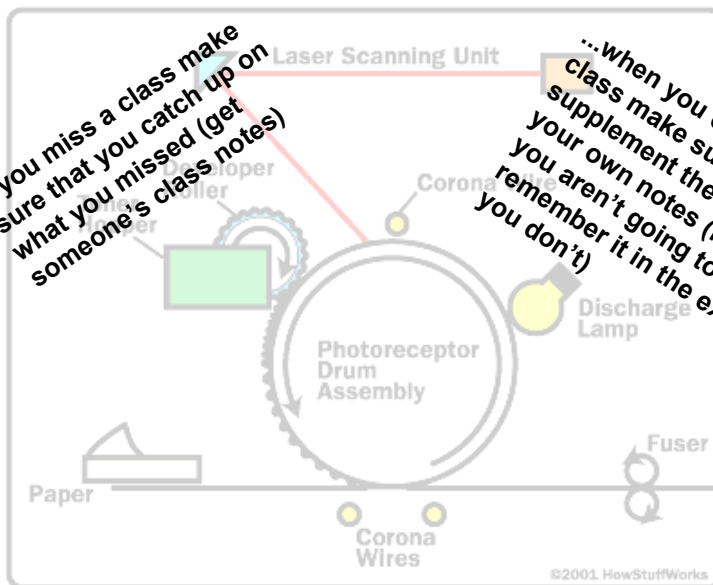
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How To Use The Course Resources (2)



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How To Use The Course Resources (2)



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How To Use The Course Resources (3)

- What you are responsible for:
 - Keeping up with the content in class which includes the topics covered but also announcements or assignments whether you were present in the class or not.
 - If you are absent, then you are responsible to get the information from the other students in class.
- However, after you've caught up by talking with a classmate:
 - Ask for help if you need it
 - There are no dumb questions



Image from "The Simpsons" © Fox

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Course Goals

- Implementing a procedural solution to a problem using a low level programming language
- Design a program using the Object-Oriented approach
- Solve problems using principles of good Object-Oriented design

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Feedback

What is he talking about???

Wow I am the greatest speaker in the world!



Let me know how things are going in the course:

- Am I covering the material too slowly or too quickly.
- Can you read the slides and my hand writing.
- Can you hear me in the class.
- Etc.



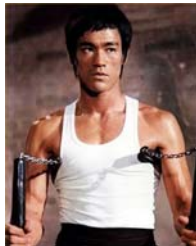
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How To Succeed

•Successful people



Leonardo da Vinci



Bruce Lee



J.R.R. Tolkien



Amadeus Mozart



Wayne Gretzky

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How To Succeed In This Course

1. Practice things yourself.

- Write lots programs
 - At the *very least* attempt every assignment
 - Try to do some additional practice work (some examples will be given in class, some practice assignments will be available on the course web page).
- Trace lots of code
 - Reading through programs that other people have written and understanding how and why it works the way that it does

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How To Succeed In This Course (2)

2. Make sure that you keep up with the material

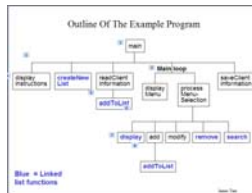
- Many of the concepts taught later depend upon your knowledge of earlier concepts.
- Don't let yourself fall behind!
- *At least* attempt all assignments!

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How To Succeed In This Course (3)

3. Look at the material before coming to lecture so you have a rough idea of what I will be talking about that day:

- a) Read the slides
- b) Look through the textbook (if you bought it)



```

Main Procedure: Example Program
begin
  use main_menu_options : main_menu_options
  use main_menu_help : main_menu_help
  use main_menu_quit : main_menu_quit
  use main_menu_quit_help : main_menu_quit_help
  use main_help_options : main_help_options
  use main_help_help : main_help_help
  use main_help_quit : main_help_quit
  use main_help_quit_help : main_help_quit_help
  use main_quit_options : main_quit_options
  use main_quit_help : main_quit_help
  use main_quit_quit : main_quit_quit
  use main_quit_quit_help : main_quit_quit_help
end

```

```

2. Creating A New List (2)
Description:
The purpose of the beginning of the list is passed into the procedure as a variable
parameter and returned in the output list for use in the example.
Example:
procedure createNewList (var aList: list of Integer)
begin
  aList := [];
  add (1, aList);
end

```

```

Reading The Client Information From A File (2)
procedure readClientInformation (var aList: list of Integer)
var
  file: TextFile;
  line: TextLine;
  clientInfo: Client;
  clientInfoList: list of Client;
begin
  file := CreateTextFile ("clientInfo.txt", [fmAppend]);
  while True do
  begin
    line := ReadTextLine (file);
    if line = "" then
      break;
    end;
    clientInfo := Client (line);
    add (clientInfo, clientInfoList);
  end;
  readClientInformation := clientInfoList;
end

```

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How To Succeed In This Course (4)

4. Start working on things as early as possible:

- Don't cram the material just before the exam, instead you should be studying the concepts as you learn them throughout the term.
- Don't start assignments the night (or day!) that they are due, they may take more time than you might first think so start as soon as possible.

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How To Succeed In This Course: A Summary

1. Practice things yourself
2. Make sure that you keep up with the material
3. Look at the material before coming to lecture
4. Start working on things early