

CMPT14x Semester Overview

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CMPT14x

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Semester Review: major concepts

- Problem solving / **design** process
- Program **elements**:
 - Expressions, sequence/if/while/etc.
- Program **organization**:
 - Procedures, modules, libraries, scope
- Data **types**: lists/arrays, classes, sets, dict
- **Standard libraries**: math, random, file I/O
- **Exceptions**
- **OO** concepts

CMPT 140 Review: Chapters 1-8

- Ch1: **Problem**-solving
- Ch2: Your first **program**
- Ch3: Program **structure**
- Ch4: Procedures/**functions**
- Ch5: Arrays/**lists**
- Ch6: **Library** modules: math, random
- Ch7: **Applications**
- Ch8: Number **bases** and memory/**storage**

CMPT 145 Review

- Sets (M2 ch9)
- Dictionaries (Py ch10)
- Object-oriented programming (Py ch12-14)
- Exceptions (Py tut 8)
- Namespaces and scope (Py tut 9)
- Pointers and linked lists (M2 ch12, Py ch17)
- Trees, BST, Stacks/Queues (M2 ch14, Py ch20)

Where to go from here?

- Now you know the **concepts**; learning C/Java/M2/etc. is mostly just learning **syntax**
 - **C++**: CMPT 160+165
 - **Java**: CMPT 160+167
 - **M2**: notes from old CMPT145
- Learn by **example**:
 - Find a small, well-written application and
 - Figure out how it works; read the **code**
- Learn by **doing**:
 - Modify/extend, or **create** your own app!

TODO

- Paper was due Mon
 - Email to me (I'll send you a confirmation mail)
 - Late penalty 10% per day (midnight to midnight)
 - Not accepted after the final exam starts
- Lab10 due tonight:
 - Implement one of your old Lab04-07 in M2
 - Full lab-writeup (may reuse parts of old writeup)
- Final exam this Sat 8Dec: 9-11am Neu37