

IT5001 SOFTWARE DEV. FUNDAMENTALS



INFORMATION ABOUT THIS COURSE

Your Lecturer

- ▶ CHENG, Ho Lun, Alan, 鄭浩璘
 - Hong Kong
 - UIUC, Duke (USA)
- ▶ Hobbies:
 - Teaching
 - 3G: Graphics, Geometry, Games
 - Animation, anime, comics, movies, etc.
- ▶ Quote:
“Code, pray, love”



ABOUT THIS COURSE

Hardwork

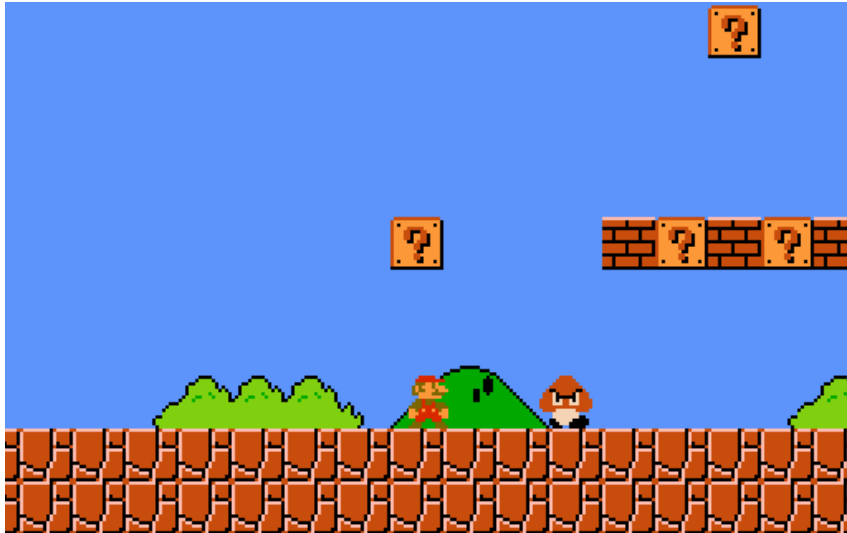


This Course vs COS2000



Culinary Degree vs Cooking Class

This Course vs COS2000



<https://youtu.be/9GP8yg-x1Kw?t=954>

How to be a good programmer

- What is the different between old and new fighting movies?

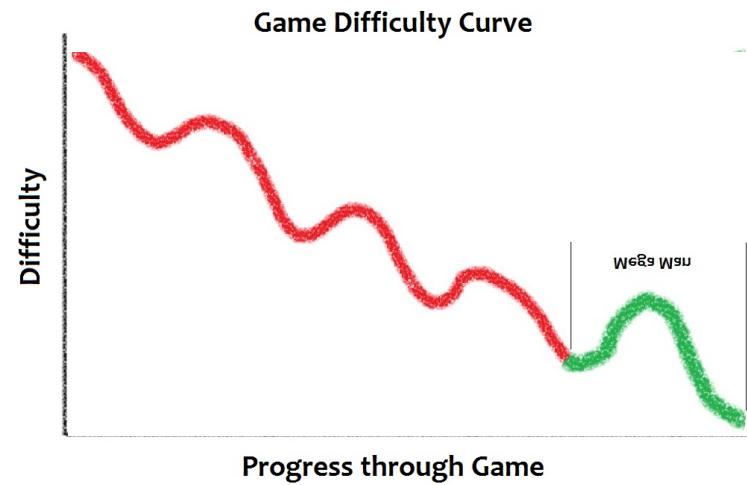
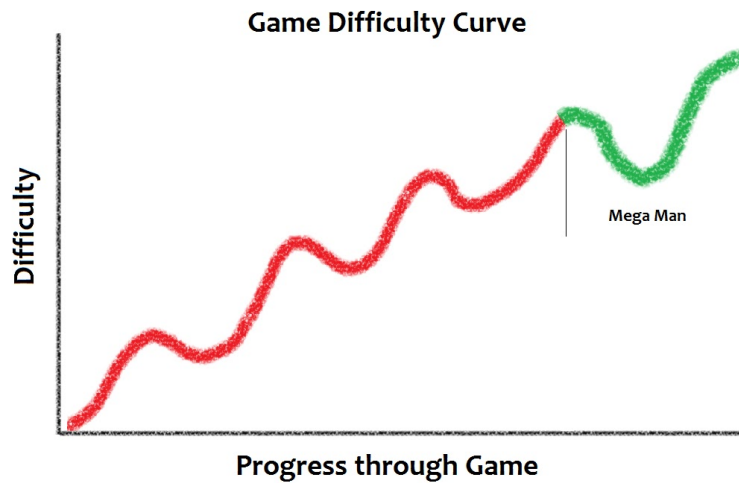


How to be a good programmer

- What is the different between old and new video games



Game Difficulties



Life and Learning

- “Nothing in the world is worth having or worth doing unless it means effort, pain, difficulty... I have never in my life envied a human being who led an easy life. I have envied a great many people who led difficult lives and led them well.” — Theodore Roosevelt
- “Fun, achievements and sense of success ONLY come with the payments of falls, pain and mistakes you made.” - Me



NUSWhispers

August 28 at 10:28 AM · 🌐

it kinda pisses me off that the computing lecturer assumes that we know alot of the things and is more concerned in finishing the lesson plan within that hour than whether the students understand what he is saying

-

#51782: <https://www.nuswhispers.com/confession/51782>



3

4 Comments 1 Share



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Ben Leong Which lecturer? If you don't understand, just put up your hand and ASK lah.

Like · Reply · 7h



Ng Xin Zhao If you don't know then raise hand, ask questions. Do read up what you can before hand, and follow the instructions, does the lecturer expects you to read up before class? Or had he assumed everyone is at his pace since no one asked him to slow down or ask questions. But don't expect spoon feeding.

Like · Reply · 2d



Ivan Chew u are supposed to read up (think, try out) beforehand and patch ur knowledge in lecture
not go into lecture expecting to be taught as in primary/sec school
also, without practice, you can't really learn stuff in computing (aside from the theoretical / definitions part)

Like · Reply · 2d · Edited



Daniel Kwang It's only week 3 and you're complaining? You have yet to see what the whole module have prepared for you. However, it's still not too late for you to catch up.

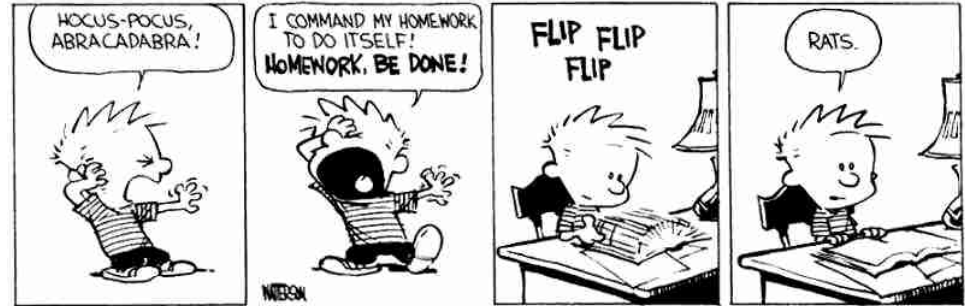
Like · Reply · 2d

Course Structure

- Lecture
 - Wed, Sat
 - Focus: Teaching, overview
- Tutorial Sessions
 - Sat
 - Focus: Practice, details

CA

- Assignment 20%
 - Trainings 0%
 - Cousremology + Kattis
 - PEs
 - PE 20%
 - One Mock Quiz 0%
 - Two quizzes 10% x 2
 - Final Assessment 40%
-
- Subject to 5% adjustment
 - All Assessment are “grade-based”



Assessments

- Quiz and PE
 - Only one physical cheat sheet on the table
- You cannot access any other materials, including those stored in your computer.
- Quiz:
 - Browser must be full-screen all the time
 - You cannot use other aids even IDE such as IDLE
- PE:
 - Only IDLE

Details: Assignment

- Homework are all distributed, submitted, graded on
 - Coursemology (Only one chance to un-submit in one semester)
- Total Seven of them
- Late policy:
 - One day late 33% discount
 - Two days late 66% discount
 - Three or more days late, zero
- No excuses for assignments except long term hospitalization

Details: PEs

- Practical exams are programming tests
- All PE will be in the Tutorial time (10-12am on Sat)
- PE (two hours)
 - Week 7
- You need to use the lab machines

Make-up PEs, Midterm

- You are qualified for make-ups if
 - Hospitalization or serious illness with MC by a doctor
 - NS (for guys)
- Any thing other than the above are not qualified, some unqualified examples:
 - Oversea Travel, both **business** and personal (except the above)
 - ~~• Representing halls or clubs, including with letters from hall officials~~
- There will be no more make-up for make-ups.
- By NUS rule, once you started an assessment of any kind, you cannot do any make-ups.

Software Tools in This Course

- IDLE (app)
 - To code and run Python
- Coursemology (website)
 - All lecture/tutorial materials, including webcasts
 - Receiving, testing and submission of your assignments
- Archipelago (website)
 - For real time interaction in lectures
- Kattis
 - For extra trainings
- You will receive emails invitations for the two websites

Feedback

Dear Prof Alan,

... as a student without much background in computing, but a strong desire to learn more. I found this module to be very useful as it consolidated key computing topics and concepts. I looked forward to studying the topics in depth, and I am glad we covered object-oriented programming.

The weekly assignments I felt played an important role in my learning. The assignments themselves were very interesting and enriching, especially the last one on OOP where we got to work with and experience larger scale programs.

After this course, I attended a Machine Learning Workshop and I can fully understand all the ML contents!

Important Dates

Week	Dates	Events
1		
2		Quiz 0 (0%)
3		
4		Quiz 1 (10%)
5		
6		Quiz 2 (10%)
7		
8		PE (20%)