

Final Words

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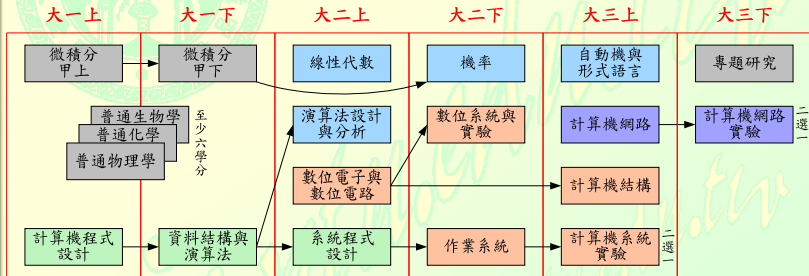
Before the Midterm

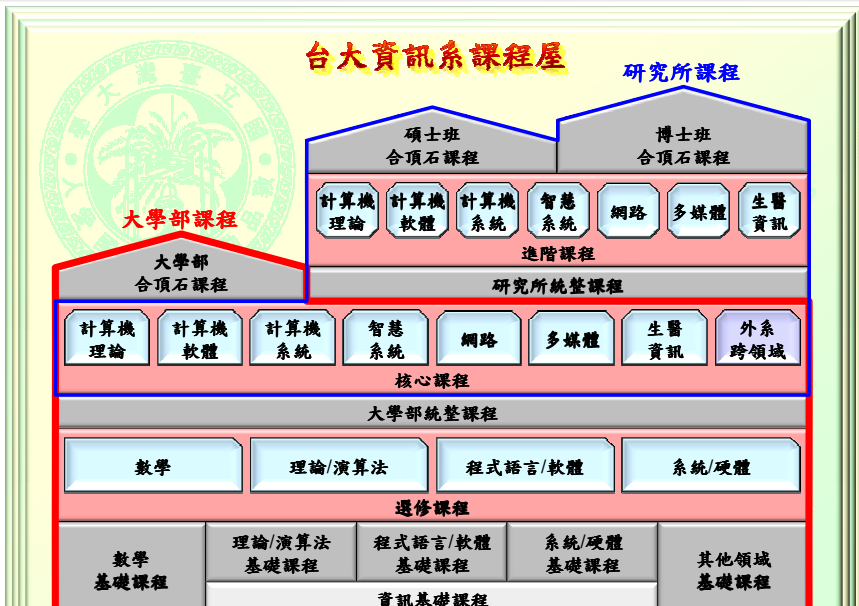
- Basics of DSA/C++
- Arrays: dense, sparse
- Linked Lists: singly, circular, doubly
- Analysis Tools
- Stacks, Queues, Dequeues: expression parsing
- List/Iterator
- Trees: general, binary, traversal

After the Midterm

- Heap
- Hashing: chaining, probing, dynamic
- Skip Lists
- Search Trees: BST, AVL, 2-3-4, RB
- Sorting: bubble, selection, insertion, shell, merge, heap, quick [BST], counting, radix

系定必修課程流程圖





How to Be an Excellent Programmer?

ability / characteristic	related courses
sincere, communication, work hard, ...	
domain knowledge	
language feature <ul style="list-style-type: none">• workable program• bug-free program e.g., C# property, DateTime.Now• most suitable feature e.g., if vs. switch statements	Programming Language (Compiler) (Operating System) (Computer Architecture)
program behavior	Data Structure Algorithm
API, library <ul style="list-style-type: none">• simple API e.g., Date, Calendar, GregorianCalendar• complex API, with design concept e.g., swing's event/listener, RMI	
experience <ul style="list-style-type: none">• write program by yourself• trace other's real & good program	(Data Structure) (Algorithm)

Most Important of All: Never Stop Learning!

<http://www.books.com.tw/exep/prod/booksfile.php?item=0010464414>

獻給還在大學裡的編年級生們，尤其是今晚想幹 IT 這一行的人
一群 IT 小小鳥，來自不同的國家、不同的洲、不同的語言、不同的文化、
在大學中追求著共同、亦迥異的學習方向

祝願所有的編年級生們
本科不虛度、考好少管日、實習別放過、求職心中有數
畢業不尋就業、自己給自己點光



浙江大學 著 蔡學謙 編譯

THANK YOU!!