Terence Sim

17 Aug 2017

I can do it!

CS1231 ~~Discrete Structures~~

Message of the Day

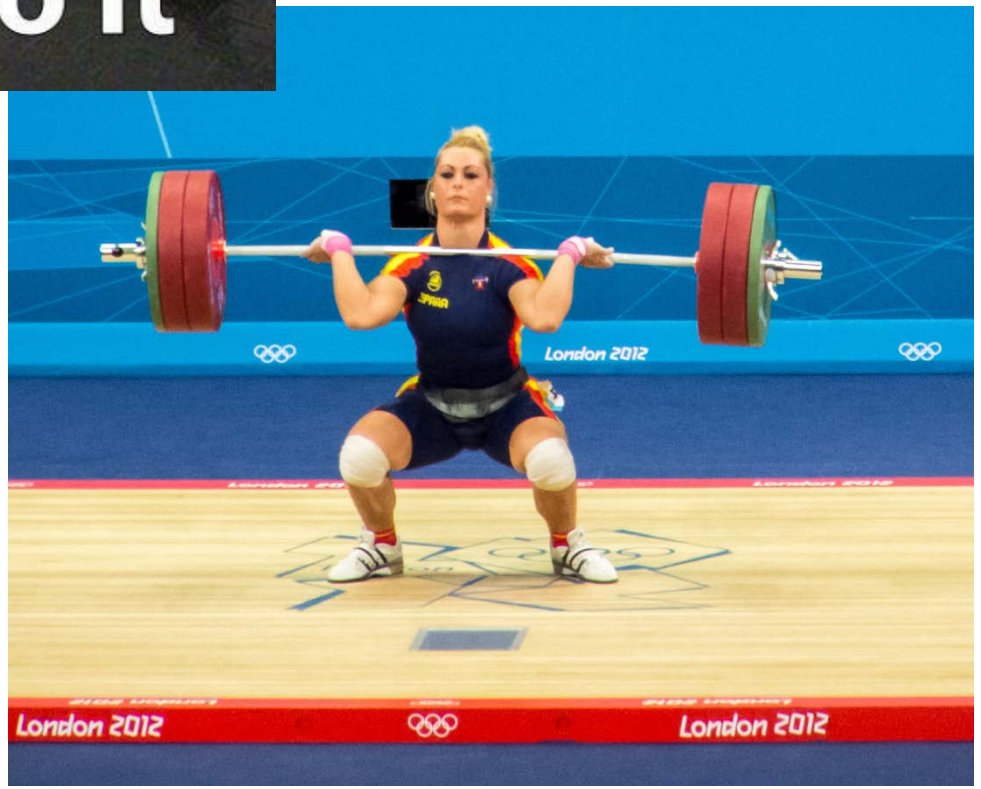
I can do it!

I can do it!

I can do it!

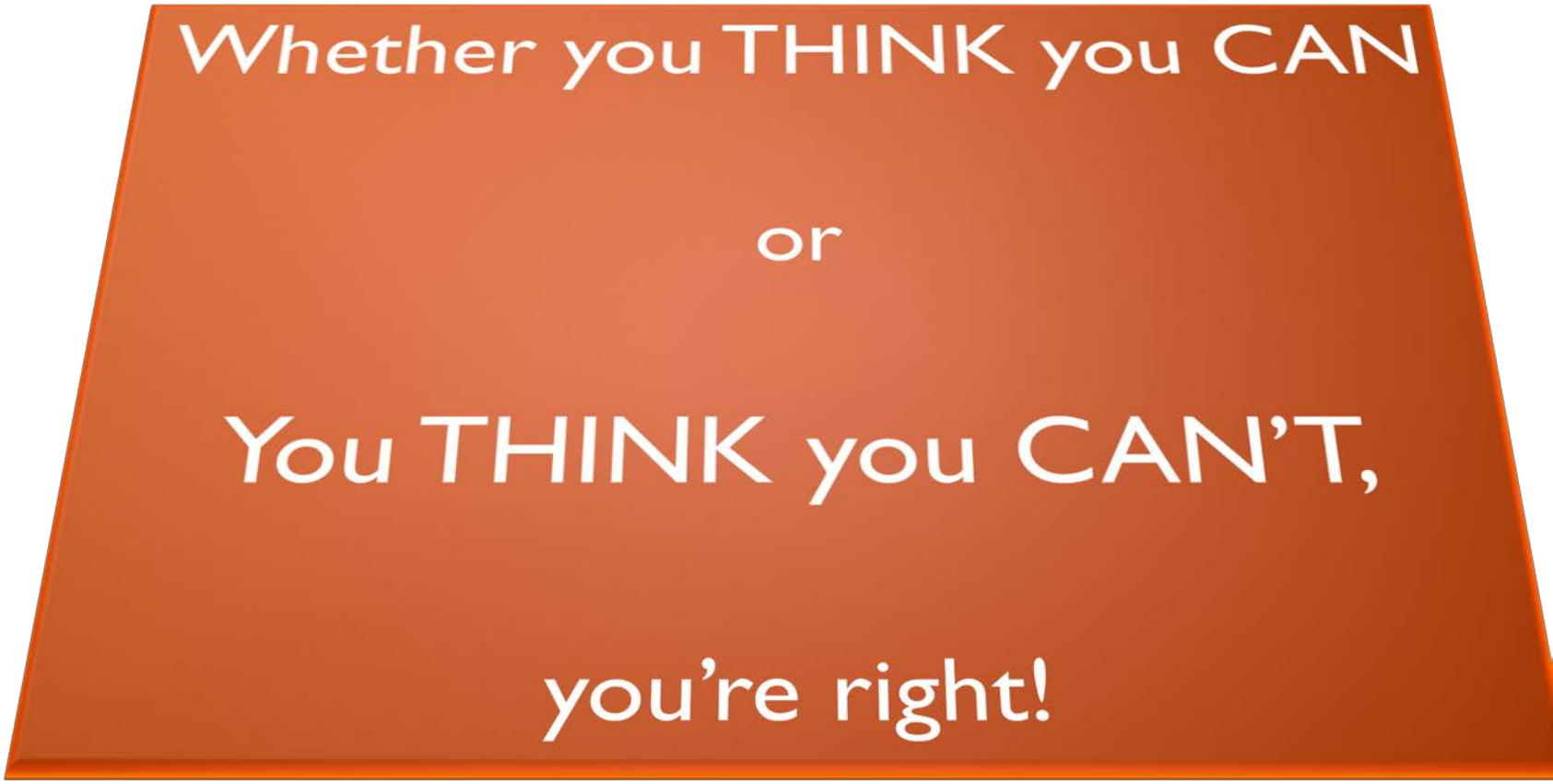
Don't feel like this

But like this



http://www.jiujitsutimes.com/wp-content/uploads/Olympics_2012_Womens_75kg_Weightlifting.jpg

Think Positive



Teaching Staff

3 Lecturers:

Terence Sim

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Aaron Tan

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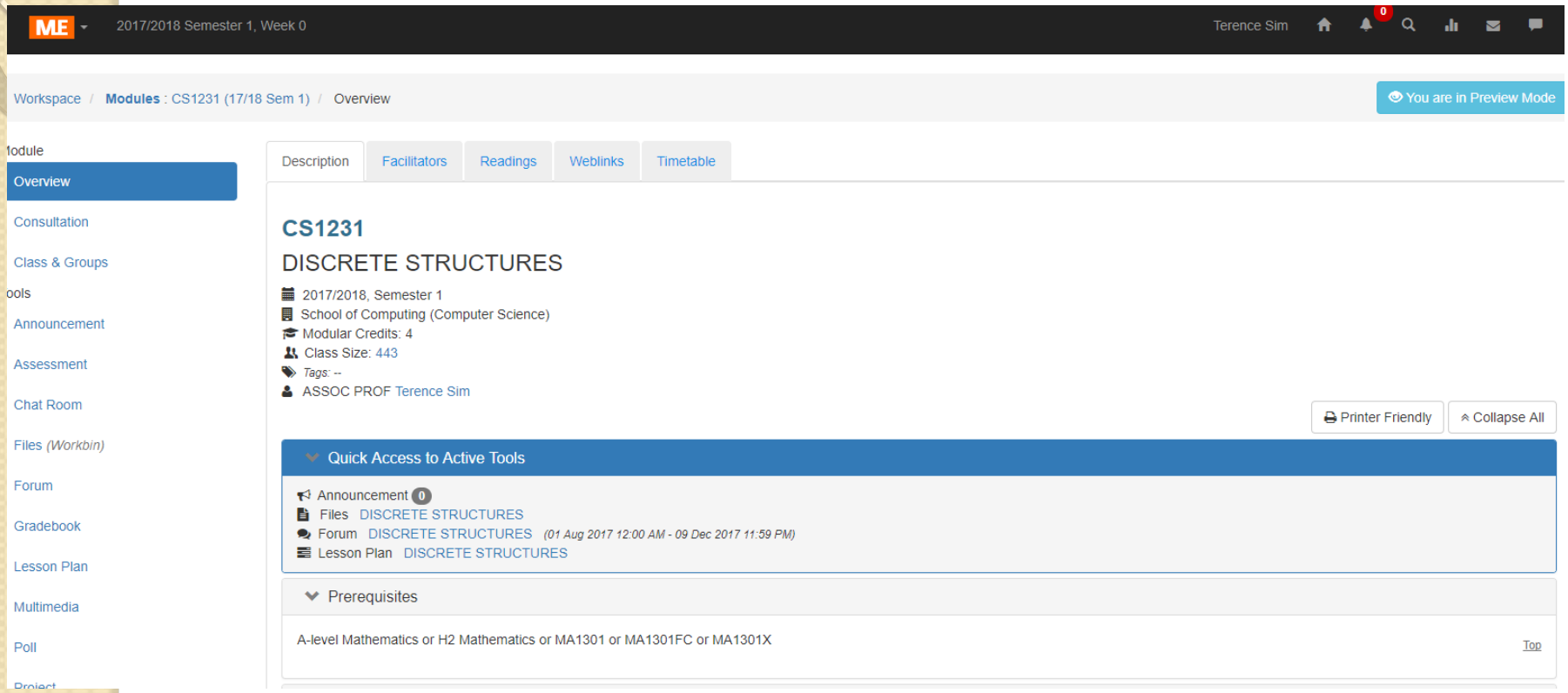
Sufatrio

sufatrio@comp.nus.edu.sg

Tutors: TBA

Read IVLE daily; ignorance not an excuse

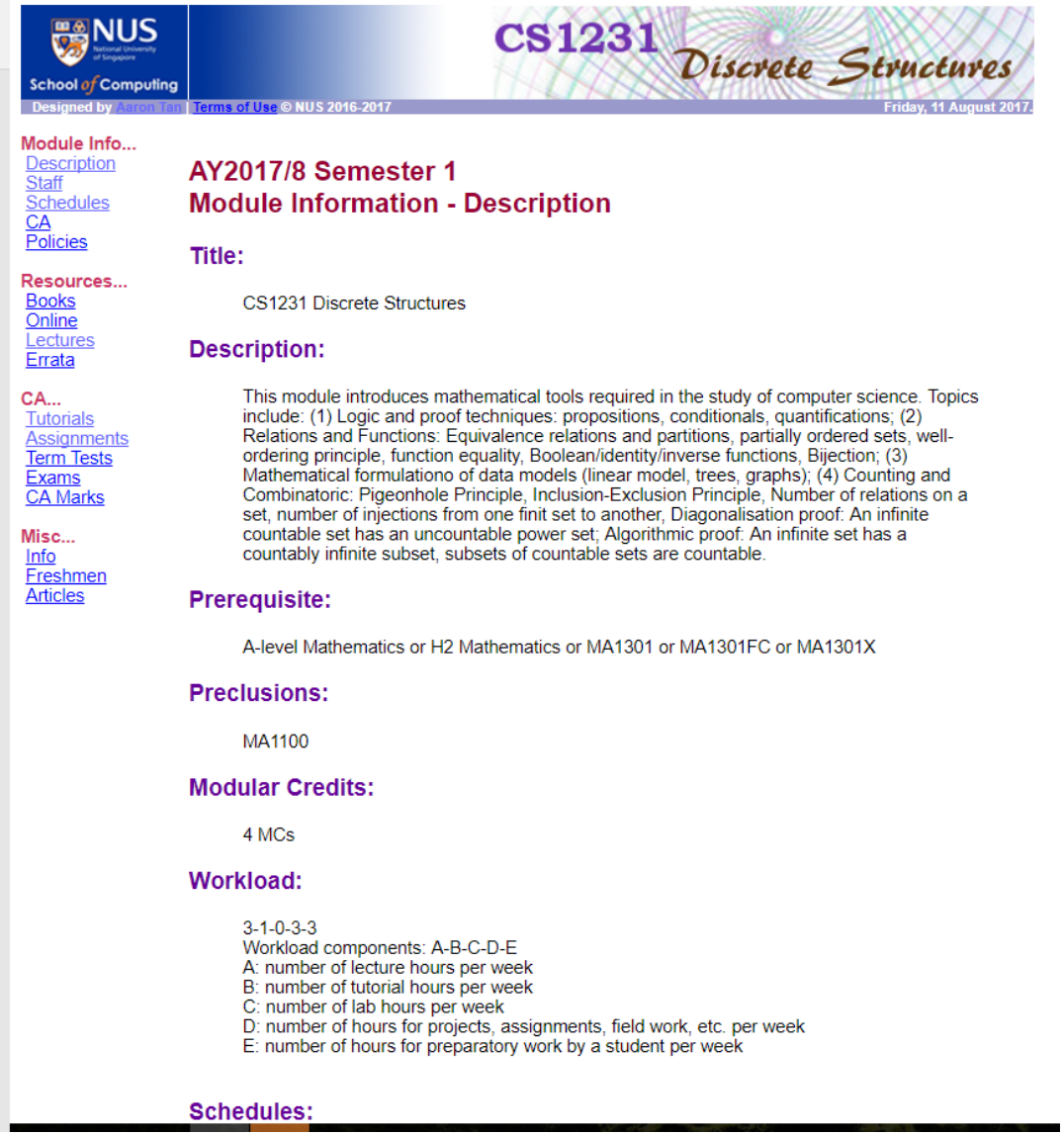
https://ivle.nus.edu.sg



Use the Forum to ask questions, share ideas, and discussion relevant topics.
Be courteous, even when disagreeing.
Do not post anything that may violate the owner's copyright.

https://www.comp.nus.edu.sg/~cs1231/

Also read Module web site



NUS National University of Singapore
School of Computing

CS1231 Discrete Structures

Designed by Aaron Tan | Terms of Use © NUS 2016-2017 Friday, 11 August 2017

Module Info...
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AY2017/8 Semester 1
Module Information - Description

Title:

CS1231 Discrete Structures

Description:

This module introduces mathematical tools required in the study of computer science. Topics include: (1) Logic and proof techniques: propositions, conditionals, quantifications; (2) Relations and Functions: Equivalence relations and partitions, partially ordered sets, well-ordering principle, function equality, Boolean/identity/inverse functions, Bijection; (3) Mathematical formulationo of data models (linear model, trees, graphs); (4) Counting and Combinatoric: Pigeonhole Principle, Inclusion-Exclusion Principle, Number of relations on a set, number of injections from one finit set to another, Diagonalisation proof: An infinite countable set has an uncountable power set; Algorithmic proof: An infinite set has a countably infinite subset, subsets of countable sets are countable.

Prerequisite:

A-level Mathematics or H2 Mathematics or MA1301 or MA1301FC or MA1301X

Preclusions:

MA1100

Modular Credits:

4 MCs

Workload:

3-1-0-3-3
Workload components: A-B-C-D-E
A: number of lecture hours per week
B: number of tutorial hours per week
C: number of lab hours per week
D: number of hours for projects, assignments, field work, etc. per week
E: number of hours for preparatory work by a student per week

Schedules:

Lectures & Tutorials

- Attendance will be taken during tutorials, but not lectures.
  - Stay with your tutorial group for the whole semester; do not switch group
- Pay attention and participate in class
- Do not distract others
  - No Pokemon or games
  - No watching videos
  - No social networking or messaging
- IVLE Web Lectures will be available a day or two after each lecture.

Assessment

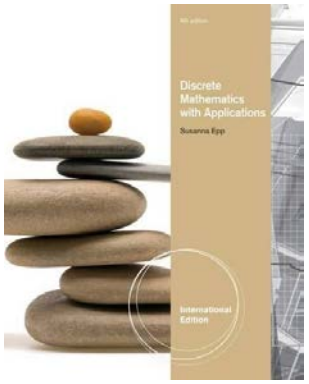
Final Exam	50%
Midterm Exam	25%
Two Assignments (10% each)	20%
Tutorial Attendance	5%

Final and Midterm Exams are OPEN BOOK (more details later). Basically, this means you can bring in ***hardcopy*** notes, textbook. Softcopy NOT allowed.

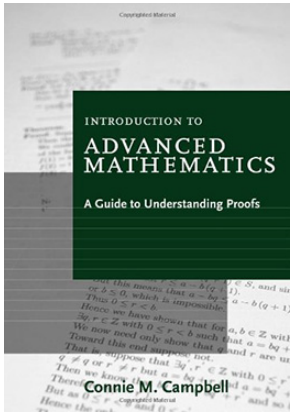
Exam Dates

Midterm exam:	TBA (most likely 2 Oct.)
Final exam:	Mon, 27 Nov., evening

Books



Discrete Mathematics with Applications, International Edition 4th Edition
Susanna S. Epp
ISBN-13: 9780495826163 | ISBN-10: 0495826162
© 2011 | Published | 984 Pages
List Price: S$326.25
Special Adoption Price: S$77.60 (Inclusive of 7% GST)



Introduction to Advanced Mathematics: A Guide to Understanding Proofs 1st Edition
Connie M. Campbell
ISBN-13: 9780547165387 | ISBN-10: 0547165382
© 2012 | Published | 144 Pages
List Price: S$59.75
Special Adoption Price: S$25.90 (Inclusive of 7% GST)

Special bundle price: both books for S$80.40 (incl. 7% GST)

Note: both are also available at Central Library (RBR)

Avoid Plagiarism at all costs!

Group study is fine, but write up your own solutions yourself. Do not copy.

Also see:

http://emodule.nus.edu.sg/ac/

https://www.comp.nus.edu.sg/undergraduates/plagiarism.html

Action Items

- Register for a tutorial slot
  - via CORS asap

This module is tough, but …

http://www.medicaldaily.com/fist-clenching-can-improve-your-memory-study-finds-245254