



Terence Sim

17 Aug 2017

I can do it!

CSI231 [^]~~Discrete Structures~~



Message of the Day

I can do it!

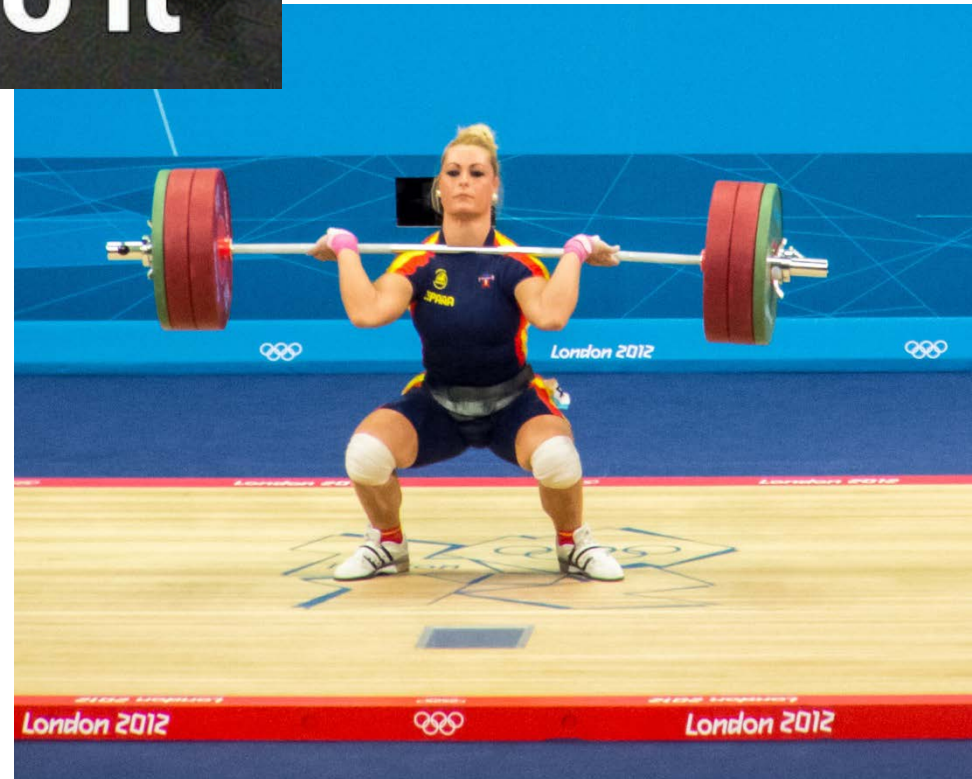
I can do it!

I can do it!



Don't feel like this

But like this



Think Positive

Whether you THINK you CAN

or

You THINK you CAN'T,

you're right!

Teaching Staff

3 Lecturers:



Terence Sim

tsim@comp.nus.edu.sg



Aaron Tan

tantc@comp.nus.edu.sg



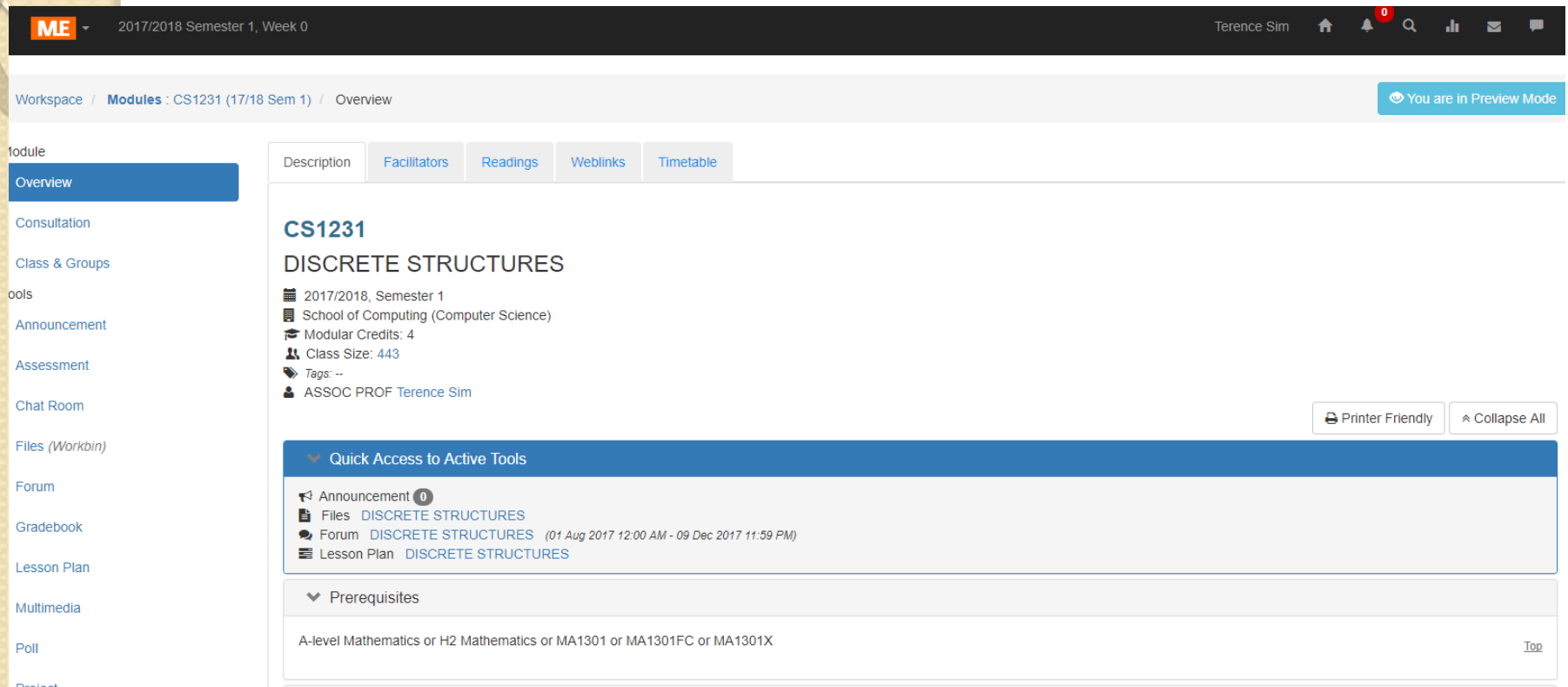
Sufatrio

sufatrio@comp.nus.edu.sg

Tutors: TBA

Read IVLE daily; ignorance not an excuse

<https://ivle.nus.edu.sg>



The screenshot shows the IVLE interface for the course CS1231 (Discrete Structures) in the 2017/2018 Semester 1. The top navigation bar includes the ME logo, the semester/week information, the user's name (Terence Sim), and various utility icons. The main content area is divided into a left sidebar with navigation links (Overview, Consultation, Class & Groups, Tools, Announcement, Assessment, Chat Room, Files (Workbin), Forum, Gradebook, Lesson Plan, Multimedia, Poll, Project) and a main panel. The main panel has tabs for Description, Facilitators, Readings, Weblinks, and Timetable. The 'Description' tab is active, showing the course title 'CS1231 DISCRETE STRUCTURES', the semester, school, credits, class size, and the instructor 'ASSOC PROF Terence Sim'. Below this, there is a 'Quick Access to Active Tools' section with links to Announcements, Files, Forum, and Lesson Plan for 'DISCRETE STRUCTURES'. The 'Forum' link is highlighted with a date range. A 'Prerequisites' section lists 'A-level Mathematics or H2 Mathematics or MA1301 or MA1301FC or MA1301X'. Utility buttons for 'Printer Friendly' and 'Collapse All' are also visible.

ME 2017/2018 Semester 1, Week 0 Terence Sim

Workspace / Modules : CS1231 (17/18 Sem 1) / Overview You are in Preview Mode

Module Overview

Consultation

Class & Groups

Tools

Announcement

Assessment

Chat Room

Files (Workbin)

Forum

Gradebook

Lesson Plan

Multimedia

Poll

Project

Description Facilitators Readings Weblinks Timetable

CS1231
DISCRETE STRUCTURES

2017/2018, Semester 1
School of Computing (Computer Science)
Modular Credits: 4
Class Size: 443
Tags: --
ASSOC PROF Terence Sim

Printer Friendly Collapse All

Quick Access to Active Tools

Announcement 1
Files DISCRETE STRUCTURES
Forum DISCRETE STRUCTURES (01 Aug 2017 12:00 AM - 09 Dec 2017 11:59 PM)
Lesson Plan DISCRETE STRUCTURES


Prerequisites

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

Top

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.

Also read Module web site



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National University of Singapore
School of Computing
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CS1231 *Discrete Structures*

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 formulation 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 finite 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.

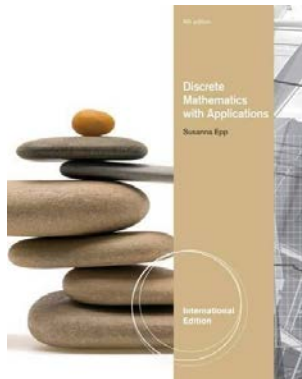
Exam Dates



Midterm exam:
Final exam:

TBA (most likely 2 Oct.)
Mon, 27 Nov., evening

Books



Discrete Mathematics with Applications, International Edition 4th Edition

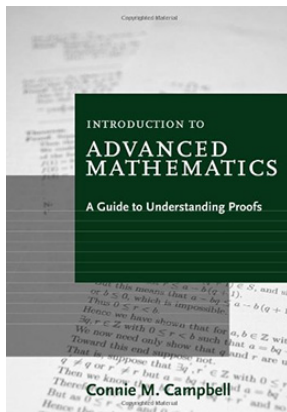
Susanna S. Epp

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>