

CS115 - Dubai Midterm Exam:

Date: Monday, October 22 from 2:00 p.m. to 4:00 p.m. in Z242. Seating information will be posted soon. Watch for an announcement. Be sure to check your seat location before the exam.

Additional Aids: None, i.e. no calculators or dictionaries.

Coverage: Modules 1-5 up to slide 47. Questions will be in the form of short answer, tracing and coding. You should review lectures and notes, and the supporting materials from labs and assignments as part of your study process.

Additional Exam Information:

The following instructions (or something very similar) will be on the front page of the exam:

- The Scheme language level is Beginning Student Scheme.
- Supply exactly the parts of the design recipe requested in each question.
- Unless otherwise indicated, when a question requires you to “complete a function”, you must write the function body, as well any helper functions you feel are necessary. For each helper function, you are only required to write the function header and body.
- Do not use reverse.
- You may use any function defined in the exam as a helper function for any other function.
- All solutions must be placed in this booklet.
- If you need more space to complete an answer, you are likely writing too much. However, if you do need more space, use the last page, and indicate that you have done so in the original question.
- Read each question carefully to determine what restrictions apply.
- Relevant data and structure definitions will be provided with the exam.

Preparing for the Exam

- The best way to prepare for a CS exam is to practice solving problems: try the assignment and lab problems again (without looking at the solutions), look in the textbook for problems, form study groups and write up problem sets for yourselves, etc.
- Practice writing code without the computer. This is a different skill than writing code with a computer. Try it before the exam!
- Review your notes and the additional problems solved in class.
- Practice tracing code; both determining what is produced (i.e. the meaning of the code) and using the substitution rules.
- Review all steps of the design recipe and practice each component.
- It is not necessary for you to memorize the details of Scheme functions that have been presented in the lecture notes. You will either be given a reference

sheet, or given information about required functions in the question itself. However, you should have a general understanding of the functions you have seen in lecture or in the string documentation file.

- Seek assistance from course staff as needed.
- A midterm exam from a previous offering of CS 115 is available in the <http://www.mathsoc.uwaterloo.ca/> MathSoc exam bank but instructors do not unanimously agree that it is a useful tool for studying.