

# 03-60-440 Principles of Programming Languages (2009 Fall)

[School of Computer Science](#), [University of Windsor](#)

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## Assignment: Functional programming

You need to write your program in a file named A3.scm, and send the file as an attachment in your email submission.

**Due date: November 21, 4pm**

Please submit to David Wang ([wang112s at uwindsor](mailto:wang112s@uwindsor)) by email.

### Assignment specification

You will define a calculator for simple arithmetic expressions in scheme. For example, when typing (calculator '( 1 + 2)), scheme interpreter will print 3. The calculator will accept expression of any length, and the expression associates to the right. For example, in (calculator '(1 + 1 - 2 + 3 )) the expression is interpreted as (1+ (1 -(2+3))), hence the value is -3.

You can assume that the expressions have + and - operators only. In addition, there are no brackets in expressions.

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