



# THE UNIVERSITY OF WINNIPEG

## SCIENTIFIC COMPUTING

PHYS-2102-051 · ACS-2102-051

Winter 2017

### Course Information

Meeting time: Tuesdays, 5:30 PM – 8:15 PM

Room number: 2L14

Website: [www.scicomp.ca](http://www.scicomp.ca)

#### Contact information:

Instructor David Ostapchuk

Office 2C32

Phone 204-786-9183

Email [instructor@scicomp.ca](mailto:instructor@scicomp.ca)

Office hours Immediately after class or  
by appointment

#### Important dates:

10 Jan. 2017 First class

TBD Feb. 2017 Midterm test

21 Feb. 2017 No class (reading week)

1 Mar. 2017 Final day to withdraw  
without academic penalty

4 Apr. 2017 Last class

7 Apr. 2017 Final exam (6:00 PM)

### Course Material

#### Required textbook/reading:

- K. N. King. *C Programming: A Modern Approach*, second edition. W. W. Norton, 2008. ISBN 978-0-393-97950-3.

### Evaluation Criteria

Your final grade will be composed of the following components:

- Assignments 30%
  - Approximately one assignment per week.
  - Assignments must be submitted by the indicated due date.
  - Late assignments will not be accepted.
- Midterm test 30%
  - Calculators will not be permitted.
  - Photo-identification will not be asked for.
- Final exam 40%
  - Calculators will not be permitted.
  - Photo-identification will not be asked for.

The guidelines for conversion from numerical (percentage) grades to letter grades are as follows:

Letter Grade	Percentage
A+	95–100
A	87–94
A–	80–86
B+	74–79
B	67–73
C+	61–66
C	53–60
D	50–52
F	0–49

Note that the above are guidelines and that final grades shall be approved by the Department Review Committee and may be subject to change.

## Topics to be Covered

This course will introduce the C programming language and cover the following topics:

- C fundamentals
- Formatted input and output
- Operators and expressions
- Selection statements
- Loops
- Basic types
- Arrays
- Functions
- Program organization
- Pointers
- Strings
- The preprocessor
- Structures, unions, and enumerations
- The Standard Library
- File input and output

Not all topics will necessarily be covered and other topics may be added or substituted.

## University of Winnipeg Regulations and Policies

- Appeals and misconduct
  - See the Academic Regulations and Policies section of the [Course Calendar](#) regarding appeals and academic misconduct. For more information please refer to Section 8 in the following URL:  
[www.uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf](http://www.uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf).
- Respectful Working and Learning Environment Policy
  - All students, faculty, and staff have the right to participate, learn, and work in an environment that is free of harassment and discrimination. The policy can be found online at [www.uwinnipeg.ca/respect](http://www.uwinnipeg.ca/respect).
- Religious holidays
  - Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work or examinations without penalty. A list of religious holidays can be found at [www.uwinnipeg.ca/calendar/docs/important-notes.pdf](http://www.uwinnipeg.ca/calendar/docs/important-notes.pdf).
- When it is necessary to cancel a class due to exceptional circumstances, instructors will make every effort to inform you via uwinnipeg email, as well as the departmental assistant and Chair/Dean so that class cancellation forms can be posted outside classrooms.
- Your uwinnipeg email address will normally be used for course related correspondence.
- Please note that withdrawing before the VW date does not result in a fee refund.
- Class make-up days are scheduled at the end of the term for courses that conflict with holidays.

## Accessibility Services

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact [Accessibility Services](#) at 204-786-9771 or [accessibilityservices@uwinnipeg.ca](mailto:accessibilityservices@uwinnipeg.ca) to discuss appropriate options.

- All information about a student's disability or medical condition remains confidential.
- More information about [Accessibility Services](#) is available online at <http://www.uwinnipeg.ca/accessibility/>.