



THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-1903-002, 072L, 073L
Course Name: Programming Fundamentals I
Course Webpage: <http://courses.acs.uwinnipeg.ca/1903-002/>

1 Instructor Information

Instructor: Jeanette Bautista
E-mail: je.bautista@acs.uwinnipeg.ca
Office Hours: Thursdays 11:00 am-12:00 pm Office: 3D25
Class meeting time: Tue/Thu 2:30-3:45 pm Room: 3D01
Lab time: L-072 Fridays 1:30-2:45 pm Room: 3C13
L-073 Fridays 2:45-4:00 pm Room: 3C13

2 Important Dates

1. First Class: Tuesday, September 3, 2019
2. First Lab: Friday, September 6, 2019
3. Midterm Test 1: Thursday, October 3
4. Reading Week (no classes): October 13-19, 2019
5. Midterm Test 2: Thursday, November 7, 2019
6. Final Withdrawal Date w/o academic penalty*: Tuesday, November 12, 2019
7. Last Class: Thursday, November 28, 2019
8. Last Lab: Friday, November 29, 2019
9. Final Exam (Comprehensive): Saturday, December 7, 2019
10. University closures: Thanksgiving Monday, October 14, 2019
Remembrance Day Monday, November 11, 2019

*A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date.

3 Course Objectives / Learning Outcomes

This course introduces fundamental programming concepts using the Java programming language. Topics to be covered include primitive data types and their manipulation, control structures, classes, objects, methods, and array lists.

4 Evaluation Criteria

1. Labs (9%)

- Based on best 9 of 11, worth 1% each
- Labs are completed during the Friday lab period
- No late lab submissions will be accepted

2. Assignments (11%)

- 3 assignments, worth 3-4% each
- Assignments will be accepted up to 1 day late with a 20% penalty

Course IDE:

ACS workstations in ACS labs 3D03 and 3C13 have the BlueJ Java editor installed. BlueJ will be used during classes, and it is expected that students will use BlueJ to develop Java programs during labs and for assignments. BlueJ is free to download to your own computing environments (see <http://www.bluej.org>).

Lab/assignment submissions:

All work is to be submitted electronically. All coding is to be submitted in .java format, and any written work in PDF format. Further details and submission procedure will be stated in each assignment.

Students are responsible for backing up and protecting their lab and assignment work.

3. Midterm Tests (25%)

- During the regular class time on October 3 (10%) and November 7 (15%)

4. Final Exam (55%)

- Cumulative
- 3 hours duration

Students should contact the instructor as soon as possible if extenuating circumstances require missing a lab, assignment, test or examination. A medical certificate from a practicing physician may be required before any adjustments are considered.

5 Test / Exam Requirements

- Photo ID is required for the final exam.
- The use of computers, calculators, phones, or other electronic devices is not permitted on exams.
- Midterm and final exams are closed book.

6 Final Letter Grade Assignment

Historically, numerical percentages have been converted to letter grades using the following scale. However, instructors can deviate from these values based on pedagogical nuances of a particular class, and final grades are subject to approval by the Department Review Committee.

A+	90 – 100%	B+	75 – 79%	C	60 – 64%
A	85 – 89 %	B	70 – 74%	D	50 – 59%
A-	80 – 84%	C+	65 – 69%	F	below 50%

7 Required Text Book / Reading List

- Ron McFadyen, *Java with BlueJ Part 1, Version 4.0*, University of Winnipeg, 2019.
 - Available at www.acs.uwinnipeg.ca/rmcfadyen/CreativeCommons
- Class Notes will be available at <http://courses.acs.uwinnipeg.ca/1903-002/>

8 Prerequisite Information

- Pre-Calculus Mathematics 40S or Applied Mathematics 40S or a grade of at least C in ACS-1805.
- ACS-1903L (lab) must be taken concurrently

9 Services for Students

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 (AS) at 204-786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential.
<https://www.uwinnipeg.ca/accessibility-services>.

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 examinations without penalty. A list of religious holidays can be found in the 2019-20 Undergraduate Academic Calendar online at <http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf>

All students, faculty and staff have the right to participate, learn, and work in an environment that is free of harassment and discrimination. The UW Respectful Working and Learning Environment Policy may be found online at <https://www.uwinnipeg.ca/respect>.

10 Misuse of Computer Facilities, Plagiarism, and Cheating

Academic dishonesty is a very serious offense and will be dealt in accordance with the University's policies.

Avoiding Academic Misconduct and Non-academic Misconduct. Students are encouraged to familiarize themselves with the Academic Regulations and Policies found in the University Academic Calendar at:

<https://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>

Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals) and 10 (Grade Appeals). Please note, in particular, the subsection of Student Discipline pertaining to plagiarism and other forms of cheating.

Detailed information can be found at the following:

- Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-procedures.pdf>
- Non-Academic Misconduct Policy and Procedures: <https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-policy.pdf> and <https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-procedures.pdf>

Misuse of Filesharing Sites. Uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves “aiding and abetting” plagiarism. Students who do this can be charged with Academic Misconduct.

Avoiding Copyright Violation. Course materials are owned by the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides. Students who upload these materials to filesharing sites, or in any other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also seek prior permission of the instructor /presenter before photographing or recording slides, presentations, lectures, and notes on the board.

11 Class Cancellation, Correspondence with Students and Withdrawing from Course

When it is necessary to cancel a class due to exceptional circumstances, the course instructor will make every effort to inform students via uwinnipeg email (and/or using the preferred form of communication, as designated in this outline), as well as the Departmental Assistant and Chair/Dean so that class cancellation forms can be posted outside classrooms.

Students are reminded that they have a responsibility to regularly check their uwinnipeg e-mail addresses to ensure timely receipt of correspondence from the University and/or the course instructor.

Please let course instructor know if you plan on withdrawing from the course. Note that withdrawing before the VW date does not necessarily result in a fee refund.

12 Topics to be covered (tentative)

1. Introduction to Java/BlueJ
2. Basics
 - datatypes
 - variables
 - expressions
3. Control structures
4. Java class libraries
 - Scanner
 - Random
 - Math
 - Character, Integer
5. Methods
6. ArrayLists
7. Classes
 - fields & methods
 - associations
8. Graphical User Interfaces (time permitting)