



THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-1903-001, 070L
Course Name: Programming Fundamentals I
Course Webpage: <https://nexus.uwinnipeg.ca/d2l/home>

Instructor Information

Instructor: Ron McFadyen
E-mail: ron.mcfadyen@gmail.com
Office Hours: Wednesdays 1:00-2:00 pm

Meeting info for office hours, class time and lab sessions will be posted on Nexus

Lab time: Wednesdays 4:15-5:45 via Zoom

Meeting info for office hours, class time and lab sessions will be posted on Nexus.

Important Dates

1. First Day: Monday, May 3, 2021
2. First Lab: Wednesday, May 5, 2021
3. Midterm Test (in lab period): Wednesday, June 2, 2021
4. Final Withdrawal Date w/o academic penalty*: Tuesday, June 15, 2021
5. Last Day: Tuesday, June 29, 2021
6. Last Lab: Wednesday, June 23, 2021
7. Final Exam (Comprehensive): TBD
8. University closures: Victoria Day Monday, May 24, 2021

*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.

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.

Remote Learning

All course material including lecture notes, slides and videos, sample code, assignment and lab details will be available on Nexus. Time has been set aside for office hours but you may contact your instructor via email, and as necessary zoom time can be arranged for individual assistance.

Students must be available via Zoom during the lab times.

- Students must display their real/full name
- Use of video is optional, except for the test and examination
- Participants must be muted when not speaking
- Students may interact via chat, voice or gestures

The **Math & Science Tutoring Centre** offers free one-to-one and small group tutoring. More information about Math & Science tutoring can be found at <https://tutoringcentre.uwinnipeg.ca>. During the spring term tutoring is being done online. More information about how to book sessions this spring can be found at

<https://tutoringcentre.uwinnipeg.ca/mstutoring/mstcovid.shtml>.

Students can find answers to frequently asked questions related to remote learning here:

<https://www.uwinnipeg.ca/covid-19/remote-learning-faq.html>.

Note: A permitted or necessary change in mode of delivery may require adjustments to important aspects of course outlines, like class schedule and the number, nature, and weighting of assignments and/or exams.

Evaluation Criteria

1. Labs (7%)
 - Weekly labs, equally weighted
 - Labs are to be completed during the Wednesday lab period
 - No late lab submissions will be accepted
2. Assignments (13%)
 - 3 assignments: Assignments 1&2 - 4 marks each; Assignment 3 - 5marks
 - Individual due dates will be posted on Nexus
 - Assignments will be accepted up to 1 day late with a 20% penalty

Course IDE:

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 via Nexus. 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 Test (25%)

- During the lab period on June 2, 4:15 to 5:45 (see Important Dates)

4. Final Exam (55%)

- Cumulative

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.

Test / Exam Requirements

- Photo ID is required for midterm tests and the final exam.
- Midterm and final exams will be delivered via Nexus and proctored via Zoom. Students must have video capability, and video must be turned on for the duration of the exam for proctoring.
- Midterm and final exams are open book.
 - Students are permitted to view only the following authorized course material:
 - Class notes, slides, recordings, sample code, assignment descriptions and solutions posted by the instructor
 - Course textbook
 - Student's own course notes and assignment submissions
 - Students may use an external tool such as a text editor or IDE to write answers to questions before entering them into the exam
 - Students may contact the instructor to ask questions
 - External resources (or any material not listed above) are NOT PERMITTED
 - Communication with others (except the instructor) is NOT PERMITTED
 - All work must be entirely the students' own. Collaboration or sharing of work is NOT PERMITTED.

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>

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%

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 on Nexus

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

Regulations, Policies, and Academic Integrity

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

Avoiding 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>
- UW Library video tutorial “Avoiding Plagiarism” <https://www.youtube.com/watch?v=UvFdxRU9a8g>

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.

Non-academic misconduct. Students are expected to conduct themselves in a respectful manner on campus and in the learning environment irrespective of platform being used. Behaviour, communication, or acts that are inconsistent with a number of UW policies could be considered “non-academic” misconduct. More detailed information can be found here:

- Respectful Working and Learning Environment Policy <https://www.uwinnipeg.ca/respect/respect-policy.html>,
- Acceptable Use of Information Technology Policy <https://www.uwinnipeg.ca/institutional-analysis/docs/policies/acceptable-use-of-information-technology-policy.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>.

Copyright and Intellectual Property. Course materials are the property of the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides—irrespective of format. 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, for example, photographing, recording, or taking screenshots of slides, presentations, lectures, and notes on the board. Students found to be in violation of an instructor’s intellectual property rights could face serious consequences pursuant to the Academic Misconduct or Non-Academic Misconduct Policy; such consequences could possibly involve legal sanction under the Copyright Policy

https://copyright.uwinnipeg.ca/docs/copyright_policy_2017.pdf

Privacy

Students have rights in relation of the collecting of personal data the University of Winnipeg:
<https://www.uwinnipeg.ca/privacy/admissions-privacy-notice.html>.

More information:

- Zoom and Privacy: <https://www.uwinnipeg.ca/privacy/zoom-privacy-notice.html>
- Testing/Proctoring: <https://www.uwinnipeg.ca/privacy/zoom-test-and-exam-proctoring.html>.

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 Nexus.

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.

Topics to be covered (tentative)

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