

COMP 1006A/1406A (Fall 2026)

Introduction to Computer Science II

Instructor: Ava McKenney

Email: avamckenney@cunet.carleton.ca

Office Location: See course Brightspace

Best Ways to be in Touch: In class, Discord, or during office hours

Teaching Assistant(s): A list of teaching assistants and their contact/office hours information will be posted on the course Brightspace page.

Class Location: Please check Carleton Central for the room location.

Lecture Times: Monday/Wednesday 8:35-9:55am

Tutorial Times: See course Brightspace page.

Course Website: <https://brightspace.carleton.ca/>

Course Calendar Description

A second course in programming for BCS students, emphasizing problem solving and computational thinking in an object-oriented language. Topics include abstraction, mutable data structures, methods, inheritance, polymorphism, recursion, program efficiency, testing and debugging.

Precludes additional credit for [BIT 2400](#), [BUSI 2402](#), [ITEC 2400](#), [ITEC 2401](#), [SYSC 2004](#).

Prerequisite(s): [COMP 1005](#) or [COMP 1405](#).

Learning Material(s) and Other Course/Lab-Related Resources

Learning Material	Options for Purchasing (e.g., Bookstore, Used, etc.)	Approximate Cost
COMP 1406 Notes	Link	Free
Java JDK 25/26	https://www.oracle.com/java/technologies/downloads/	Free
IntelliJ IDE	https://www.jetbrains.com/idea/download	Free (no Ultimate subscription needed)

Students are not required to purchase textbooks or other learning materials for this course.

Course Delivery Information

This course will be taught using a blended style. Core lecture content will be provided via recorded videos shared through Brightspace. Scheduled lecture times will be used for discussion, problem solving, and live-coding exercises.

Learning Outcomes

If a student engages with all reading/lecture materials, successfully completes all the tutorials/assignments, and regularly participates in supplementary activities, then by the end of this course that student should be able to:

- Implement computer programs using the object-oriented programming paradigm and the Java programming language
- Understand and effectively apply the key principles of object-oriented programming: encapsulation, abstraction, inheritance, and polymorphism
- Understand the basic memory model of Java programs
- Solve problems using a recursive approach
- Work with abstract data types to solve problems
- Apply exception handling to build fault-tolerant programs

Assessment Scheme

COMPONENT	GRADE VALUE	DATE
Reading Quizzes	5% (10 x 0.5% each)	Weekly
Tutorial Code	10% (5 x 2% each)	See Brightspace course calendar
Tutorial Code Review	10% (5 x 2% each)	See Brightspace course calendar
Assignments	20% (4 x 5% each)	See Brightspace course calendar
Midterm	25%	Wednesday Nov. 11 th , 8:35-9:55am
Final Exam	30%	To be scheduled by Exam Services
Potential Bonus	Up to 5%	See Brightspace for details

The midterm and the final exam will be closed book. All course work, including the tutorials, assignments, midterm, and final exam, must be completed individually. All code submitted by a student for this course should be written manually by that student alone. No code should be copied from any other source unless permission is explicitly granted by the instructor. **A passing grade (50% or greater) on the final exam is required to pass the course. Any student who receives a grade of less than 50% in the final exam, or misses both the final exam and deferred exam, will receive a final grade of F.**

Late and Missed Work Policies

Late Work

All tutorials/assignments for the course will be due at 11:59pm on the stated deadline day. A 48-hour grace period will be allowed for each. You may submit your solutions any time within this 48-hour window without penalty. Beyond this grace period, no further extensions will be possible for any reason. Under extenuating circumstances, if you are seeking additional accommodations (e.g., due to an ongoing medical issue), you may petition the Associate Dean's office. Technical problems do not exempt you from this requirement, so if you wait until the last minute and then have issues with your computer or internet connection, you will still receive a mark of zero.

Missed Work

No accommodations will be made for missed work.

School of Computer Science Laptop Requirement

Every student that has been enrolled in a 1000-level (i.e., first year) course offered is required to have a laptop. This includes COMP1001, COMP1005/1405, and COMP1006/1406. For more information, please visit <https://carleton.ca/scs/scs-laptop-requirement/> and then review the requirements at <https://carleton.ca/scs/scs-laptop-requirement/laptop-specs/>.

Undergraduate Academic Advisors

The Undergraduate Advisors for the School of Computer Science are available in Room 5302HP; or by email at scs.ug.advisor@cunet.carleton.ca. The undergraduate advisors can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisors will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and Writing Tutorial Services.

SCS Computer Laboratory

Students taking a COMP course can access the SCS computer labs. The lab schedule and location can be found at: <https://carleton.ca/scs/tech-support/computer-laboratories/>. All SCS computer lab and technical support information can be found at: <https://carleton.ca/scs/tech-support/>. Technical support staff may be contacted in-person or virtually, see this page for details: <https://carleton.ca/scs/tech-support/contact-it-support/>.

Mental Health and Wellness

The [Carleton Wellness Website](#) is a useful resource for any students who may be struggling.

Academic Accommodations and Regulations

Academic Accommodation

Carleton is committed to providing academic accessibility for all individuals. You may need special arrangements to meet your academic obligations during the term. The accommodation request processes are outlined on the Academic Accommodations website (<https://students.carleton.ca/course-outline/>).

Chat GPT/Generative AI Usage

AI tools are **prohibited** for the midterm and final exam within the course. This includes any intelligent auto-correct or similar agents (e.g., Copilot, etc.). The use of AI tools for any of the other programming activities in the course is **strongly discouraged**. It is a common pitfall to over-rely on these tools, which can have a profoundly negative impact on learning. You will not

be permitted to use AI tools on the midterm or final exam, so you should aim to be comfortable discussing the course concepts and applying them to programming problems without the use of AI. The best way to do so is to put forth the required effort to successfully complete all the course work without the use of AI. You are permitted to use AI as a tutor (i.e. “help me understand concept X”, “generate examples of concept X”), as tech support (i.e. “how do I set up a new project in IntelliJ?”), and to help you understand error messages (i.e. “what does FileNotFoundException mean?”). When in doubt, err on the safe side of not using AI, and ask a course staff member if there is any question or concern about what is permitted.

Academic Integrity

Students are expected to uphold the values of academic Integrity, which include fairness, honesty, trust, and responsibility. Examples of actions that compromise these values include but are not limited to plagiarism, accessing unauthorized sites for assignments or tests, unauthorized collaboration on assignments or exams, and using artificial intelligence tools such as ChatGPT when your assessment instructions or course outline say it is not permitted.

If you are unsure of the expectations regarding academic integrity (how to use and cite references, if unauthorized collaboration with lab- or classmates is permitted (and, if so, to what degree), then you must ASK your instructor. Sharing assignment or quiz specifications or posting them online (to sites like Chegg, CourseHero, OneClass, etc.) is ALWAYS considered academic misconduct. You are NEVER permitted to post, share, or upload course materials without explicit permission from your instructor. Academic integrity offences are reported to the office of the Dean of Science. Information, process and penalties for such offences can be found on the ODS webpage: <https://science.carleton.ca/students/academic-integrity/>.

Misconduct in scholarly activity will not be tolerated and will result in consequences as outlined in [Carleton University's Academic Integrity Policy](#). A list of standard sanctions in the Faculty of Science can be found [here](#).

Additional details about this process can be found on [the Faculty of Science Academic Integrity website](#).

Students are expected to familiarize themselves with and abide by [Carleton University's Academic Integrity Policy](#).

Community Expectations

Students are expected to act responsibly and engage respectfully with other students and members of the Carleton and the broader community. See the [7 Rights and Responsibilities Policy](#) for details regarding the expectations of non-academic behaviour of students. Those who participate with another student in the commission of an infraction of this Policy will also be held liable for their actions.

Please be considerate and respectful while engaging with peers and course staff, including on

course forums; remember that we are all humans, and that your words matter. It is not acceptable to use offensive language or to disparage a person or group, no matter the intent. Please read over our discord #rules-please-read channel. You are responsible for behaving within these parameters; violations will result in loss of access privileges to these course resources, and a report to Student Affairs. If any student witnesses or experiences harassment, you are encouraged to reach out to either of the course instructors.

Alternatively, you can contact [Ombuds Services](#) or [Carleton Equity and Inclusive Communities](#).

Student Rights & Responsibilities

Students are expected to act responsibly and engage respectfully with other students and members of the Carleton and the broader community. See the [7 Rights and Responsibilities Policy](#) for details regarding the expectations of non-academic behaviour of students. Those who participate with another student in the commission of an infraction of this Policy will also be held liable for their actions.

Student Concerns

If you have any concerns regarding this course, your first point of contact is me. Please email me or visit during my student hours, and I will do my best to address your concerns. If I cannot resolve the issue, the next point of contact is the School of Computer Science at studentconcerns@scs.carleton.ca. If the concern remains unresolved, the final point of contact is the Office of the Dean of Science at ODScience@carleton.ca. Please follow this order of contact.

Note: You can also bring your concerns to [Ombuds services](#)