



Archbishop MacDonald Catholic High School

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| Course | Computing Science 20 (3 credit) |
| Year | 2025 - 2026 |
| Term | Q4 |
| Teacher(s) | Carby, Neil (neil.carby@ecsd.net) |
| Resources | Notes and handouts will be provided on Google Classroom |
| Program of Studies | https://curriculum.learnalberta.ca/curriculum/en/pos/CTSCSE |
| Overview | This course consists of three 1 credit modules: |

CSE2010: COMPUTER SCIENCE 2 (1 credit)

Students extend their understanding of software development by learning how to layer modular programming approaches over structured programming techniques to improve the efficiency and robustness of algorithms and programs. Students add to their understanding of the social side of computer science by examining some of the issues that have arisen from the implementation of computer technology.

Prerequisite: CSE1010: Computer Science 1, CSE1120: Structured Programming 2

CS2110: PROCEDURAL PROGRAMMING 1 (1 credit)

Students develop their understanding of the procedural programming paradigm. They move from a structured programming approach in which modules were handled through the use of program blocks to a more formal modular programming approach in which they are handled through subprograms.

Prerequisite: CSE1120: Structured Programming 2

CSE2120: DATA STRUCTURES 1 (1 credit)



Students learn how to design code and debug programs that use a set of data structures that can be used to handle lists of related data. Building on their knowledge of basic or primitive data types, they learn how to work with fundamental data structures such as the array.

Prerequisite: CSE2110: Procedural Programming 1

IB Philosophy

MAC's courses use the IB philosophy to encourage the holistic development of all students. The Learner Profile and Approaches to Teaching and Learning are used at all levels so that students develop a better understanding of curriculum objectives. This course will focus on the Learner Profiles COMMUNICATORS and BALANCED. Our Approaches to Learning skill will be SELF-MANAGEMENT and THINKING SKILLS.

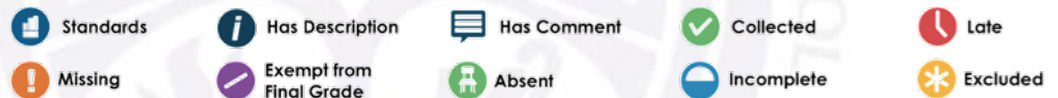
Assessment

The final grade is based on category weightings as follows:

Projects – 80%

Tests – 20%

The code NHI may be used to represent coursework that has not been handed in. It is representative of a zero. In addition, the following may appear for a student in PowerSchool instead of, or in addition to, a numeric grade:



Disclaimer

A wide range of assessment information is used in the development of a student's final grade. At Archbishop Macdonald Catholic High School, individualized assessments provide specific information regarding student progress and overall performance in class. Student assessment may vary from student to student to adapt for differences in student needs, learning styles, preferences, and paces. It should also be noted that not all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.

Personal Mobile Device Standards

Mobile Devices and Social Media Use:

- Personal mobile devices are to be silenced or turned off and stored in the student's assigned locker during the day, which must be locked.
- No personal mobile devices are to be used during the day except for at lunch.
- No social media is to be accessed during the school day.
- The standards for Personal Mobile Devices includes cell phones, SMART watches, earbuds, and headphones

Non-compliance with the standards will result in consequences of a suspension or loss of privileges such as participation in school trips, or activities, sports teams, and extracurricular activities.

Expectations

Unexcused absences and/or lates are unacceptable and may have a negative effect on the grade. Missed coursework may be expected to be completed and may be scored as zero or NHI until submitted (see disclaimer).

Student Handbook

[LINK](#)

Academic Integrity

[LINK](#)

