
COMPETITION'S GUIDE

CS GAMES – MARCH 17TH, 18TH, 19TH 2023

UNIVERSITÉ DU QUÉBEC À CHICOUTIMI



PUZZLE HERO

A CSGames classic, the Puzzle Hero presented by Pulsar Informatique is a series of challenges accessible throughout the event. The challenges cover a wide variety of technologies and require you to work in teams to solve them.

- Team : Your entire delegation
- Duration : The entire event
- Technologies : Varied
- Equipment : Your personal computer

TRANSACTION OPTIMISATION

This competition presented by Croesus Finansoft Inc. requires you to demonstrate your programming and optimization skills. The objective is to modify a program to optimize a sequence of financial transactions to maximize revenues.

- Team of 2
- Duration of 3 hours
- Technologies : C#
- Equipment : None

GAMING COMPETITION

Do you like playing video games? Good! This competition challenges your reflexes, skill and team tactics with video games.

- Team of 2
- Duration of 3 hours
- Technologies : None
- Equipment : None

ASSET CREATION

This competition requires you to demonstrate your knowledge and artistic skills with Blender. You will demonstrate your ability to create 3D elements: Texture, light management, animation, etc.

- Team of 2
- Duration of 3 hours
- Technologies : Blender
- Equipment : design tablet (optional)

VIDEO GAME DEVELOPMENT

As the name says, the video game development competition requires the creation of a video game using Unity. You can choose between two projects (or take both): A 2D game and a 3D game. Assets will be provided.

- Team of 3
- Duration of 6 hours (break after 3 hours)
- Technologies : Unity, C#
- Equipment : None

EMULATOR

The emulator competition consists of running an emulator of an old CPU and then adding some functions to it. Binaries and basic source code will be provided so you can assemble and run the emulator..

- Team of 2
- Duration of 3 hours
- Technologies : C
- Equipment : None

MOBILE DEVELOPMENT

Mobile devices are very popular these days. This competition challenges you to create a mobile application on iOS and/or Android using .NET MAUI technology.

- Team of 2
- Duration of 3 hours
- Technologies : .NET MAUI, Visual Studio 2022, C#
- Equipment : Laptop with Windows 10/11 or macOS with Visual Studio and .NET MAUI installed.

MACHINE LEARNING

This competition asks you to optimize machine learning models.

- Team of 2
- Duration of 6 hours (break after 3 hours)
- Technologies : PyCharm, Visual Studio Code, Python3, Pandas, Tensorflow, Scikit-learn, Matplotlib
- Equipment : None

WEB PROGRAMMING

As the name says, this competition challenges your knowledge of web technologies! You will have to implement some front-end features from an existing back-end.

- Team of 2
- Duration of 3 hours
- Technologies : JSON (JWT)
- Equipment : Laptop with OS of your choice and web language of your choice.

RELAY PROGRAMMING

A CSGames classic, this competition presents 3 different projects with features to implement. Each competitor will have to work on each project, after a period of one hour, the competitors will change project among themselves without talking. Make sure to document your code!

- Teams of 3
- Duration of 3 hours
- Technologies: Python, C++
- Equipment : None

<TF

A capture the flag competition in which you have several problems such as steganography, sql injection and even a blockchain challenge!

- Team of 2
- Duration of 3 hours
- Technologies : None
- Equipment : Laptop with OS of your choice. We recommend Linux.

TRIVIA

This competition challenges your knowledge of computers. As much about technology as about its history and legends.

- Team of 3
- Duration of 3 hours
- Technologies : None
- Equipment : None

SPORT

Bring your gym clothes and shoes! This competition will take place indoors and requires you to demonstrate your physical prowess as well as your ability to work as a team.

- Team of 2
- Duration of 3 hours.
- Technologies : None
- Equipment : Indoor sports clothing and shoes

