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In this document, we list the necessary software to install prior to starting your bachelor studies at CentraleSupélec. **This must be done before the year starts in September.**

Note: when a link to a video is given, although the instructions remain the same, the software version could differ. Always choose the latest version available.

Python

The default language for the programming classes. Go to the [official python website](#) to download the latest version. If you are on Windows, **do not install it from the Microsoft store**. The following links contain tutorials to install python on your machine:

- Windows 11 users: https://webtv.centralesupelec.fr/videos/python_windows_11_installation/
- macOS users: https://webtv.centralesupelec.fr/videos/python_installation_tutorial_macos/

Visual Studio Code

Also called "VS Code". The default IDE (Interactive Development Environment) for the python programming classes. To install it, go to [this link](#) and follow the instructions from [this video](#).

Git

Git is a version control system (VCS). Its purpose is to track changes made to all the files part of a common workplace called a repository. It is the industry gold-standard in the software development industry and an indispensable tool for anyone following computer science classes.

- Windows users: you can install it by going to [this link](#) and following the instructions from [this video](#).
- macOS users:
 1. Open a Terminal window.
 2. Type the command `git --version`. If you get the error `Command not found`, go to step 6.
 3. If the version of git installed on your computer is 2.46.0 or higher, you have nothing to do.
 4. Otherwise, type the command `which git`. If the answer is `/usr/bin/git`, go to step 6.
 5. If the answer is `/usr/local/bin/git`, type the command `brew upgrade git`. The command may take a few minutes to complete. Once the update is finished, verify that the version 2.46.0 or higher is installed with the command `git --version`. The installation is now over, and you have nothing else to do.
 6. Verify whether HomeBrew (a package manager for macOS) is installed by typing the command `brew --help`.
 7. If you get the error `Command not found`, install HomeBrew (the installation may take a while). Once the installation is finished (or, if HomeBrew is already installed on your computer) go to step 8.
 8. Type the command `brew install git`. The command may take a few minutes to complete. Once the installation is finished, verify that version 2.46.0 or higher is installed with the command `git --version`.