

ECE177: Programming I: From C... Lab #1 — MacOS Instructions

1 Introduction

This document describes setting up your MacOS system for doing C development on the Raspberry Pi Pico board we'll be using in future labs.

1. Installing GCC/LLVM

- (a) Install Xcode via the app store (this should be free)
- (b) Install the compiler using Xcode
 - i. Xcode menu → Preferences → Downloads
 - ii. Choose “Command line tools”
 - iii. Click “Install”
- (c) Verify installation by running the following command:

```
gcc --version
```

2. Install VS Code

- (a) Run the following command to install the dependencies

```
xcode-select --install
```

- (b) Download and install VS Code from:

<https://code.visualstudio.com/Download>
or

Install VS Code with brew using the following command:

```
brew install --cask visual-studio-code
```

3. Use screen when connecting to the Pi Pico

- (a) You can start it with:

```
sudo screen /dev/ttyACM0 115200
```

- (b) Note: try /dev/ttyACM0 first and if that doesn't work try /dev/ttyS0 instead