

# 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
- (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